

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR  
Lomax Exploration Company

3. ADDRESS OF OPERATOR  
P.O. Box 1446 Roosevelt, UT 84066 (801) 722-5103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface SW/NW 662' FWL 1982' FNL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

14.3 Miles NW of Myton, Utah

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any) 660'

16. NO. OF ACRES IN LEASE  
120.10

17. NO. OF ACRES ASSIGNED  
TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT. 1320'

19. PROPOSED DEPTH  
6500'

20. ROTARY OR CABLE TOOLS  
Rotary

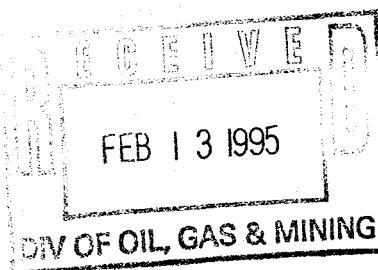
21. ELEVATIONS (Show whether DF, BT, GR, etc.)

5428.4

22. APPROX. DATE WORK WILL START\*  
First Quarter 1995

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	300'	216 sx Class C + 2% CaCl <sub>2</sub>
7 7/8	5 1/2	15.5#	TD	616 sx Hilift followed by 529 sx Class G w/ 2% CaCl



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Brad Mecham *Brad Mecham* TITLE Operations Manager DATE 2/6/95

(This space for Federal or State office use)

PERMIT NO. 43-013-31507 APPROVAL DATE 3/7/95

APPROVED BY *J. Matthews* TITLE Petroleum Eng. DATE 3/7/95

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

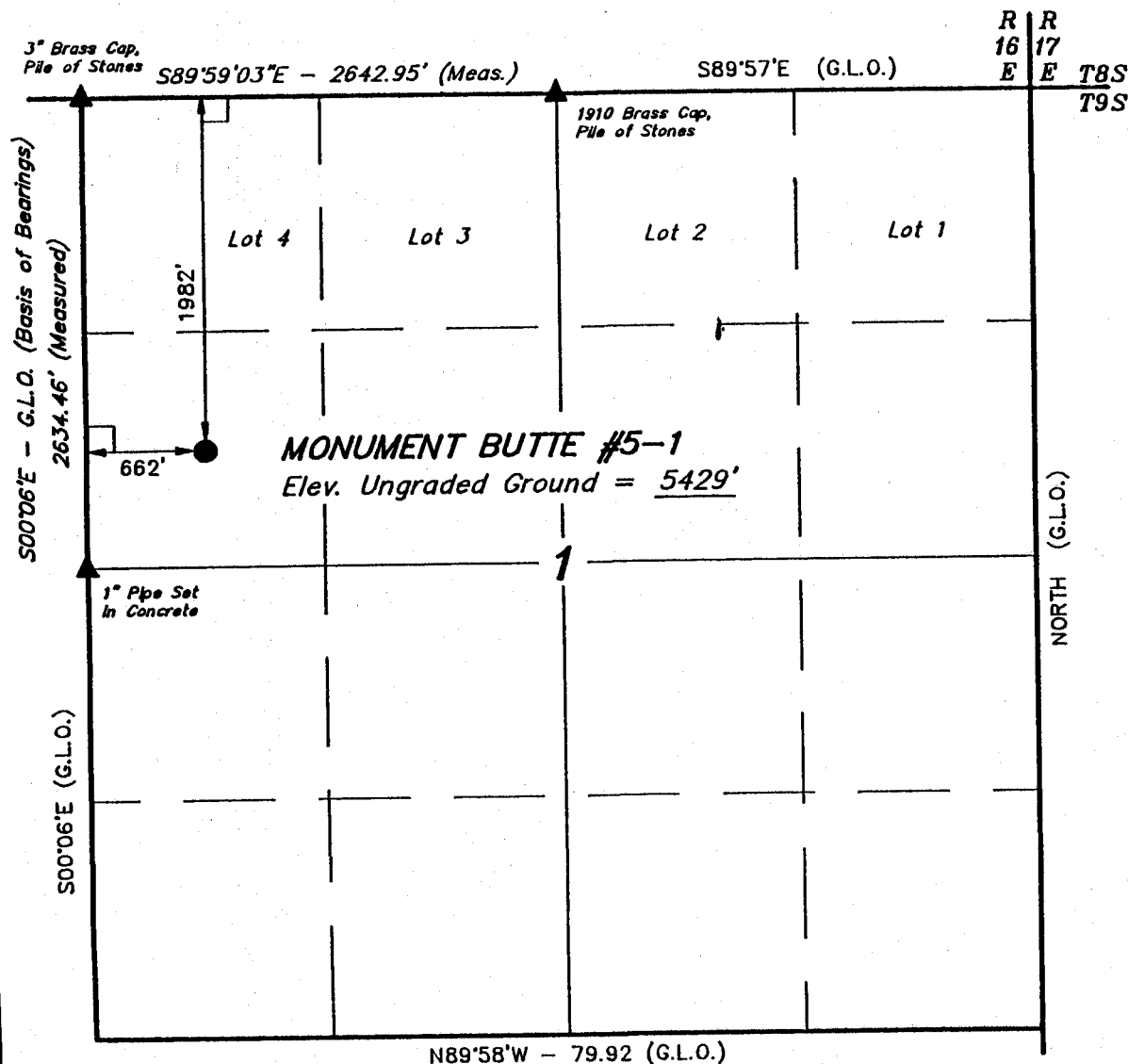
\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

WELL SPACING:



**T9S, R16E, S.L.B.&M.**



**LEGEND:**

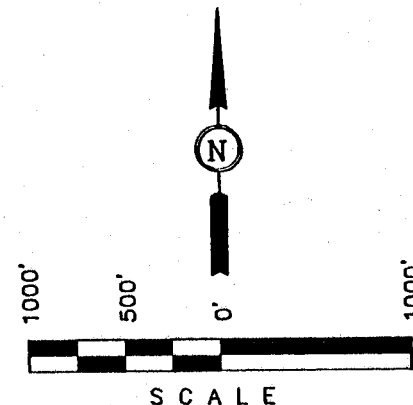
- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

**LOMAX EXPLORATION CO.**

Well location, MONUMENT BUTTE #5-1  
located as shown in the SE 1/4 NW 1/4  
of Section 1, T9S, R16E, S.L.B.&M.  
Duchesne County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION  
1, T9S, R16E, S.L.B.&M. TAKEN FROM THE MYTON SE  
QUADRANGLE, DUCHESNE COUNTY, 7.5 MINUTE QUAD.  
(TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES  
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY.  
SAID ELEVATION IS MARKED AS BEING 5482 FEET.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UNTAH ENGINEERING & LAND SURVEYING**

85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 1-27-95	DATE DRAWN: 2-3-95
PARTY J.K. N.H. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE LOMAX EXPLORATION CO	



**MONUMENT BUTTE FEDERAL #5-1  
SW/NW SEC. 1, T9S, R16E  
DUCHESNE COUNTY, UTAH  
LEASE #ML-72103**

**HAZARDOUS MATERIAL DECLARATION**

LOMAX EXPLORATION COMPANY guarantees that during the drilling & completion of the above referenced well, we will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986.

LOMAX EXPLORATION COMPANY guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.



JOHNSON WATER DISTRICT  
R.R. 3 BOX 3188  
ROOSEVELT, UT 84066  
TELEPHONE (801) 722-2620

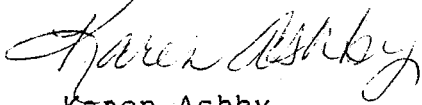
February 3, 1995

TO WHOM IT MAY CONCERN:

Lomax Exploration Company has purchased a 3 inch water connection with Johnson Water District to supply Monument Butte oilfield.

Johnson Water District has given permission to Lomax Exploration Company to use water from our system for the purpose of drilling and completing the Monument Butte Federal ~~5-1~~, 13-25, and 15-34.

Sincerely,



Karen Ashby,  
Secretary



**LOMAX EXPLORATION COMPANY  
MONUMENT BUTTE FEDERAL #5-1  
SW/NW SECTION 1, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**TEN POINT WELL PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' - 3030'
Green River	3030'
Wasatch	6070'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 5000' - Oil

**4. PROPOSED CASING PROGRAM**

8 5/8", J-55, 24# w/ ST&C collars; set at 300' (New)  
5 1/2", J-55, 15.5# w/ LT&C collars; set at TD (New)

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operators minimum specifications for pressure control equipment are as follows:

A 8" Series 900 Hydril Bag type BOP and a 8" Double Ram Hydraulic unit with a closing unit will be utilized. Pressure test of BOPS's will be checked daily.

(See Exhibit F)

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

It is proposed that the hole be drilled with fresh water to the "J" zone and with mud thereafter. The mud system will be a water based gel-chemical, weighted to 10.0 ppg as necessary for gas control.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.



8. TESTING, LOGGING AND CORING PROGRAMS:

No drill stem testing has been scheduled for this well. It is anticipated at this time that the logging will consist of a Dual Induction Laterolog, Compensated Neutron-Formation Density Log. Logs will run from TD to 3500'. The cement log will be run from PBTD to cement top. The use of mudloggers to be determined at a later date.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

It is anticipated that the drilling operations will commence the first quarter of 1995 and take approximately nine days to drill.



**LOMAX EXPLORATION COMPANY  
MONUMENT BUTTE FEDERAL #5-1  
SW/NW SECTION 1, T9S, R16E  
DUCHESNE COUNTY, UTAH**

**THIRTEEN POINT WELL PROGRAM**

**1. EXISTING ROADS**

See attached Topographic Map "A"

To reach Lomax Exploration Company well location site Monument Butte Federal #5-1 located in the SW 1/4 NW 1/4 Section 1, T9S, R16E, S.L.B. & M. Duchesne County, Utah:

Proceed westerly out of Myton, Utah along Highway 40 - 1.5 miles  $\pm$  to the junction of this highway and Utah State Highway 53; proceed southerly along Utah State Highway 53 - 1.9 miles to its junction with Utah State Highway 216; proceed southerly along State Highway 216 - 4.4 miles to its junction with an existing dirt road to the southwest; proceed south along this road 2.8 miles to its junction with an existing dirt road to the south; proceed southeasterly along this road 1.3 miles to its intersection with an existing dirt road to the east. Proceed and estimated .9 miles to the beginning of the proposed access road to be discussed in item #7.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County Crews.

The aforementioned dirt oilfield service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads required for access during the drilling, completion and production phase will be maintained at the standards required by the BLM or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

**2. PLANNED ACCESS ROAD**

See Topographic Map "B".

The planned access road leaves the existing location described in Item #1 in the NE 1/4 NW 1/4 Section 1, T8S, R16E, S.L.B. & M., and proceeds in a Northeasterly direction approximately .2 miles  $\pm$  to the proposed location site.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%.



There will no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

3. **LOCATION OF EXISTING WELLS**

There are seven (7) producing, three (3) injection, and one (1) shut-in, Lomax Exploration wells, eight (8) producing, four (4) injection, and one (1) P&A, Balcron wells, within a one (1) mile radius of this location.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

Upon construction of a tank battery the well pad will be surrounded by a dike of sufficient capacity to contain at minimum the entire contents of the largest tank within the facility battery.

Tank batteries will be placed on a per Sundry Notice if the well is completed as a producer.

All permanent (on site for six (6) months or longer) structures constructed or installed (including pumping units) will be painted Desert Tan. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

At the present time, it is anticipated that the water for this well will be transported through a temporary surface pipeline from our pre-approved Lomax Exploration Company fresh water supply line located at the Monument Butte Federal #5-35 (SW/NW Sec. 35, T8S, R16E) location as indicated on Topographic Map - Exhibit "C".

In the event this water source is not used an alternate source will be used and all the necessary arrangements will be made with the proper authorities.

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

See Location Layout Sheet - Exhibit "E".

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road. (Pit lining material is referred to in Item #7.)

A mineral material application is not required for this location.



7. **METHODS FOR HANDLING WASTE DISPOSAL**

See Location Layout Sheet - Exhibit "E".

A reserve pit will be constructed and lined with a plastic nylon reinforced line so as not to leak, break, or allow discharge. It will be a minimum of 12 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The line will overlap the pit wall and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed on in the pit.

After first production, produced water will be confined to a pit or storage tank for a period not to exceed one hundred twenty (120) days. During the one hundred twenty (120) day period, in accordance with the onshore order #7, an application for approval of permanent disposal method and location, along with required water analysis, shall be submitted for the Authorized Officers approval.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

8. **ANCILLARY FACILITIES**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT**

See attached Location Layout Sheet - Exhibit "E".

The reserve pit will be located on the southeast side between stakes 4 & 5.

There will be no flare pit on this well.

The stockpiled topsoil (first six (6) inches) will be stored on the East side between stakes 2 & 3.

Access to the well pad will be from the west side near stake 7 & 8.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) 39 inch net wire shall be used with at least one strand of barbed wire on top of the net.



- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be cemented and/or braced in such a manner to keep tight at all times.
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. PLANS FOR RESTORATION OF SURFACE

a) *Producing Location*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before back filling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be re contoured to the approximated natural contours. The reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons, all cans, barrels, pipe, etc., removed.

When the drilling and completion phase ends, reclamation of unused disturbed areas on the well pad/access road no longer needed for operations, such as cut slopes, and fill areas will be accomplished by grading, leveling and seeding as recommended by the Authorized Officer. The seed mixture will be per B.L.M. and stated in the conditions of approval.

b) *Dry Hole Abandoned Location*

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the B.L.M. will attach the appropriate surface rehabilitation conditions of approval.

11. SURFACE OWNERSHIP - Bureau Of Land Management



13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATIONRepresentative

Name: Brad Mecham  
Address: P.O. Box 1446 Roosevelt, Utah 84066  
Telephone: (801) 722-5103

Certification

Please be advised that LOMAX EXPLORATION COMPANY is considered to be the operator of Well #5-1 SW/NW Section 1, Township 9S, Range 16E: Lease #U-72103; Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

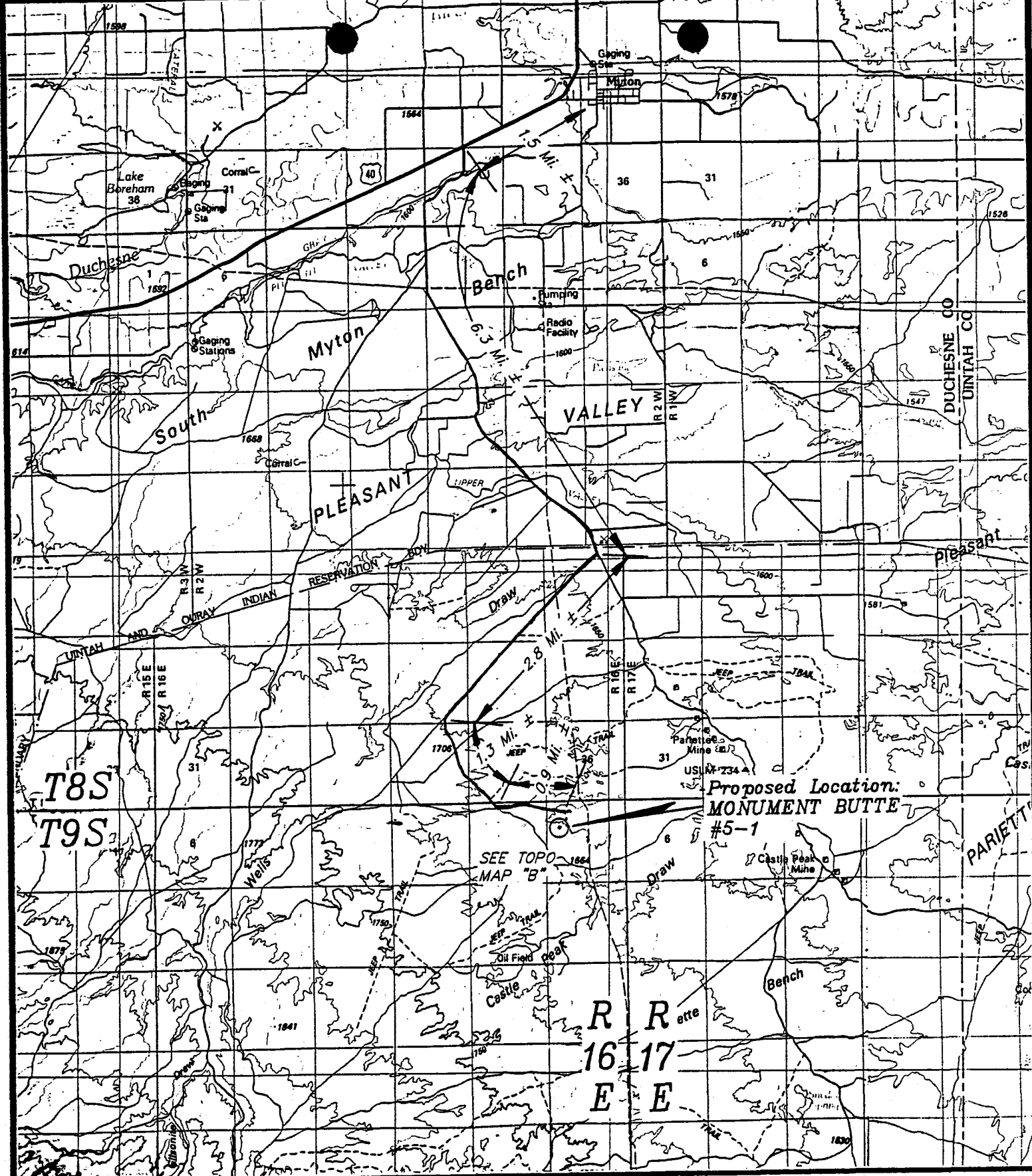
I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Lomax Exploration Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

2-7-95

Date

Brad Mecham  
Brad Mecham  
Regional Production Manager





TOPOGRAPHIC  
MAP "A"

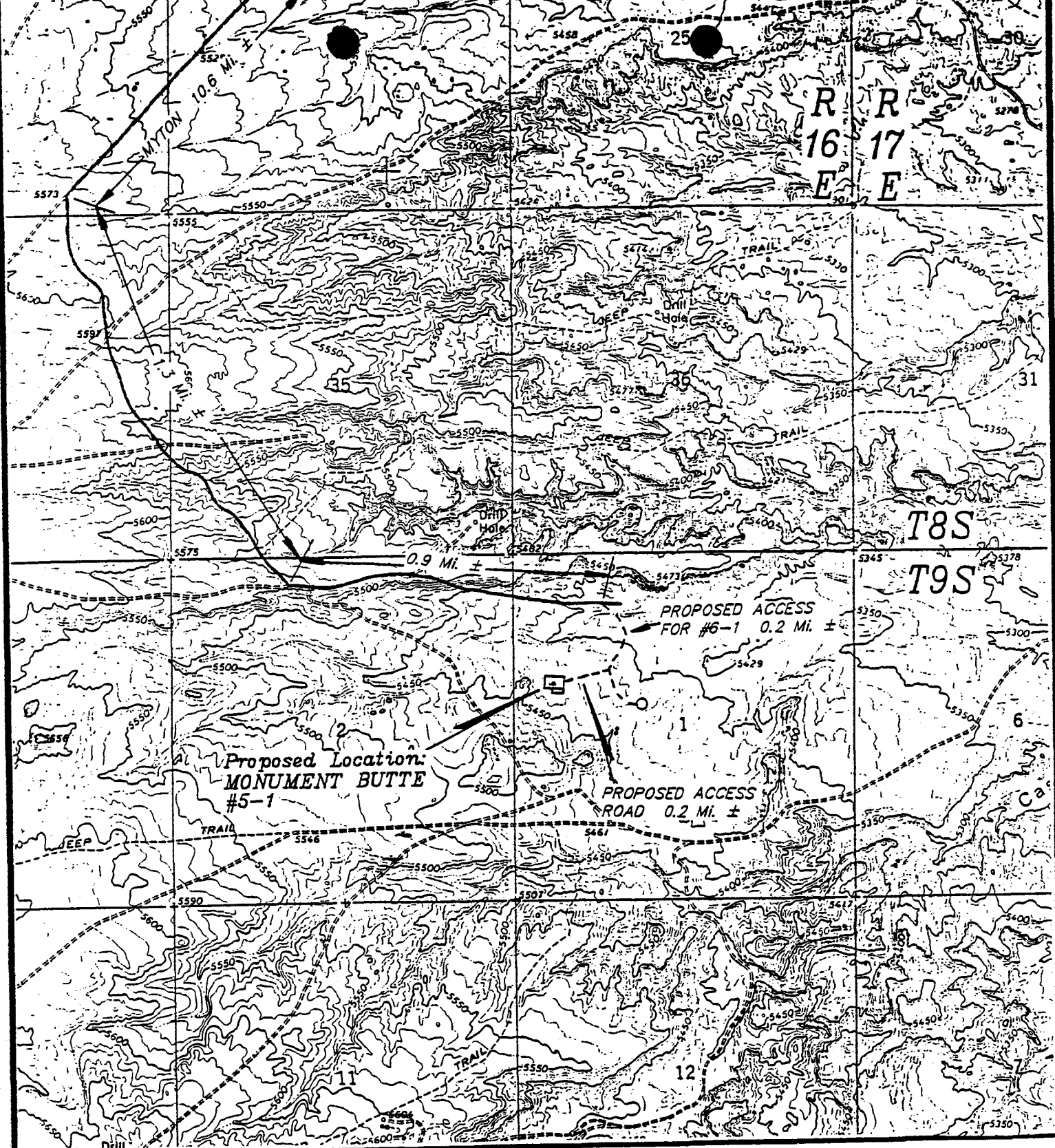
DATE: 2-5-95 C.B.T.



LOMAX EXPLORATION CO.

MONUMENT BUTTE #5-1  
SECTION 1, T9S, R16E, S.L.B.&M.  
1982' FNL 662' FWL





TOPOGRAPHIC

MAP "B"

SCALE: 1" = 2000'

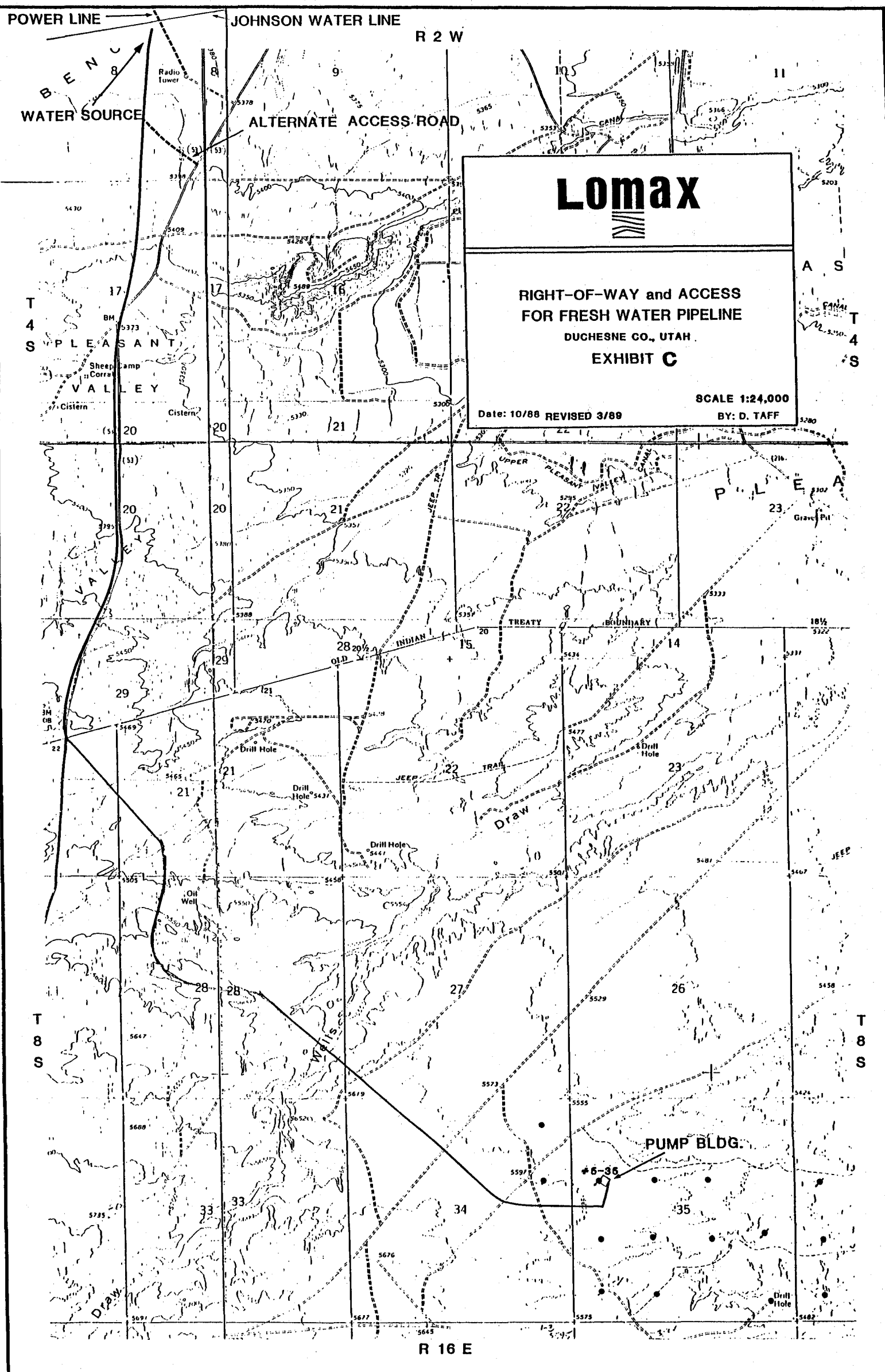
DATE: 2-5-95 C.B.T.

N

LOMAX EXPLORATION CO.

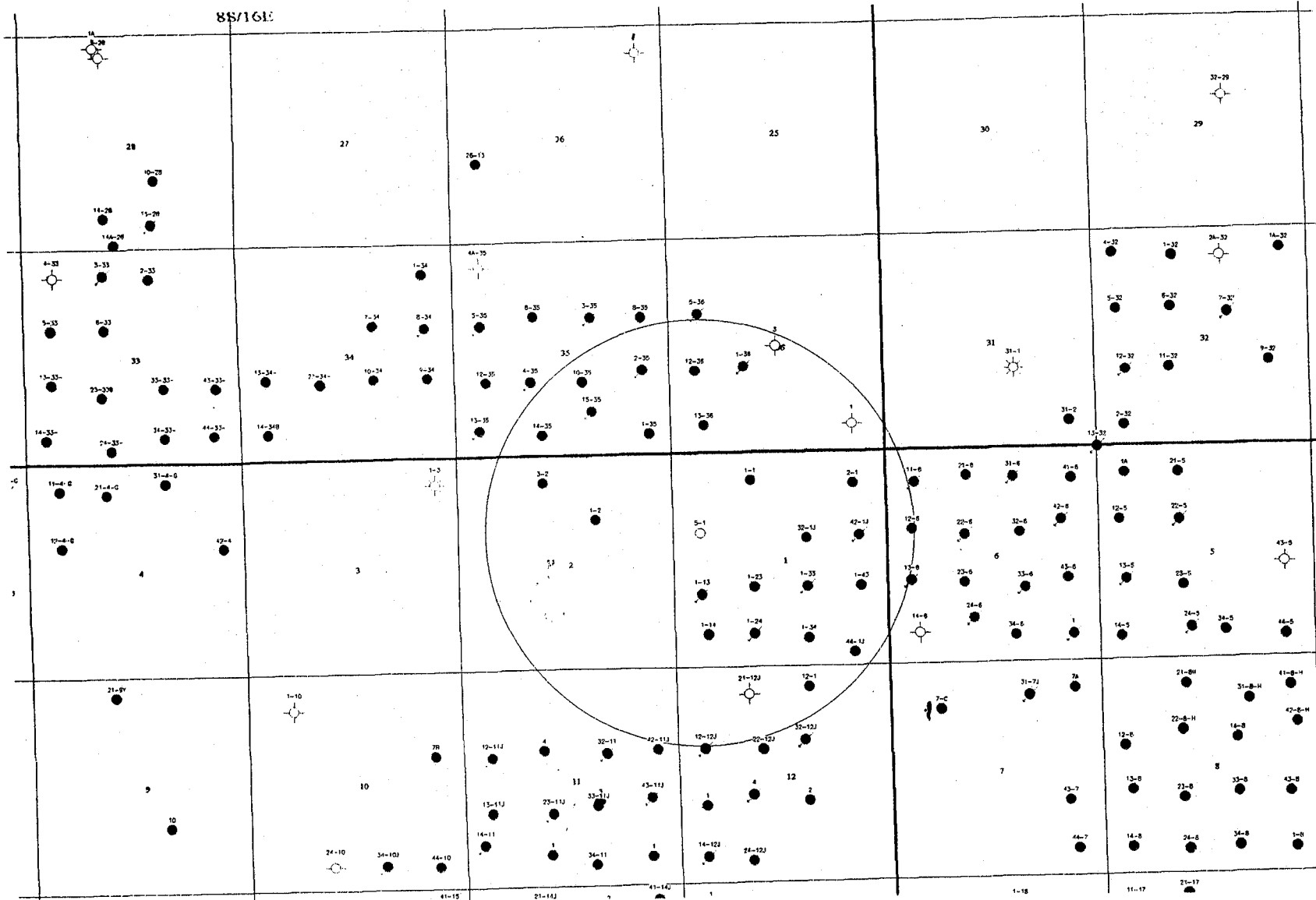
MONUMENT BUTTE #5-1  
SECTION 1, T9S, R16E, S.L.B.&M.  
1982' FNL 662' FWL







88/161E



475 17<sup>th</sup> Street Suite 1500  
Denver, Colorado 80202  
Phone: (303)-292-0900

Monument Butte Fed 5-1

Duchesne County, Utah

Date: 2-3-95

David Gerbig

EXHIBIT "D"

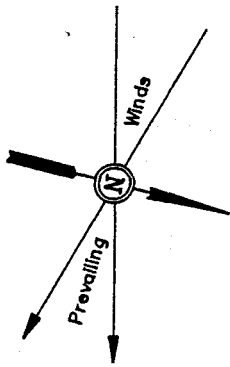




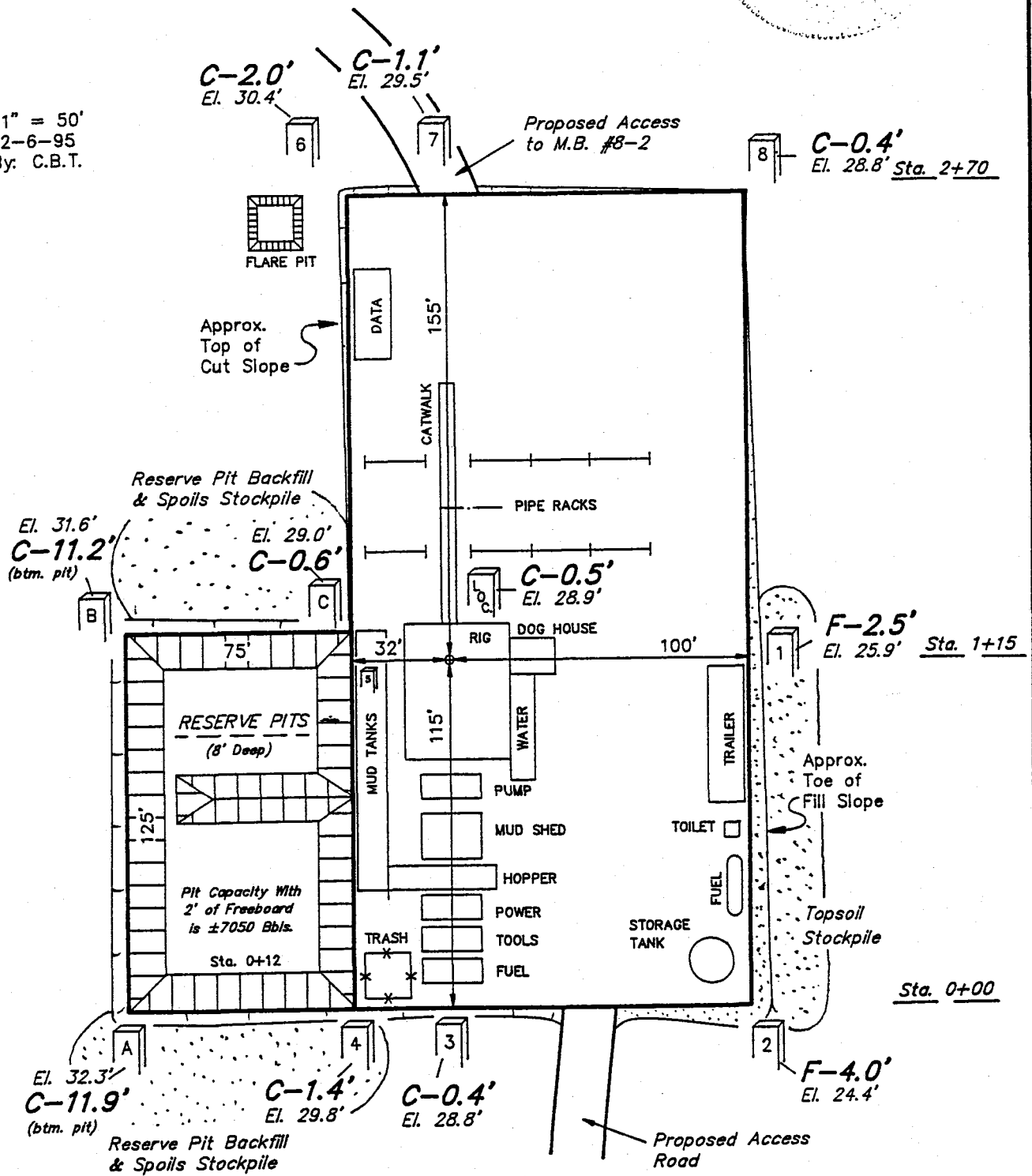
## LOMAX EXPLORATION CO.

## LOCATION LAYOUT FOR

MONUMENT BUTTE #5-1  
SECTION 1, T9S, R16E, S.L.B.&M.  
1982' FNL 662' FWL



SCALE: 1" = 50'  
DATE: 2-6-95  
Drawn By: C.B.T.



Elev. Ungraded Ground at Location Stake = 5428.9'

Elev. Graded Ground at Location Stake = 5428.4'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



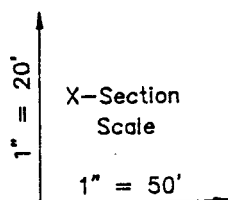
## LOMAX EXPLORATION CO.

## TYPICAL CROSS SECTIONS FOR

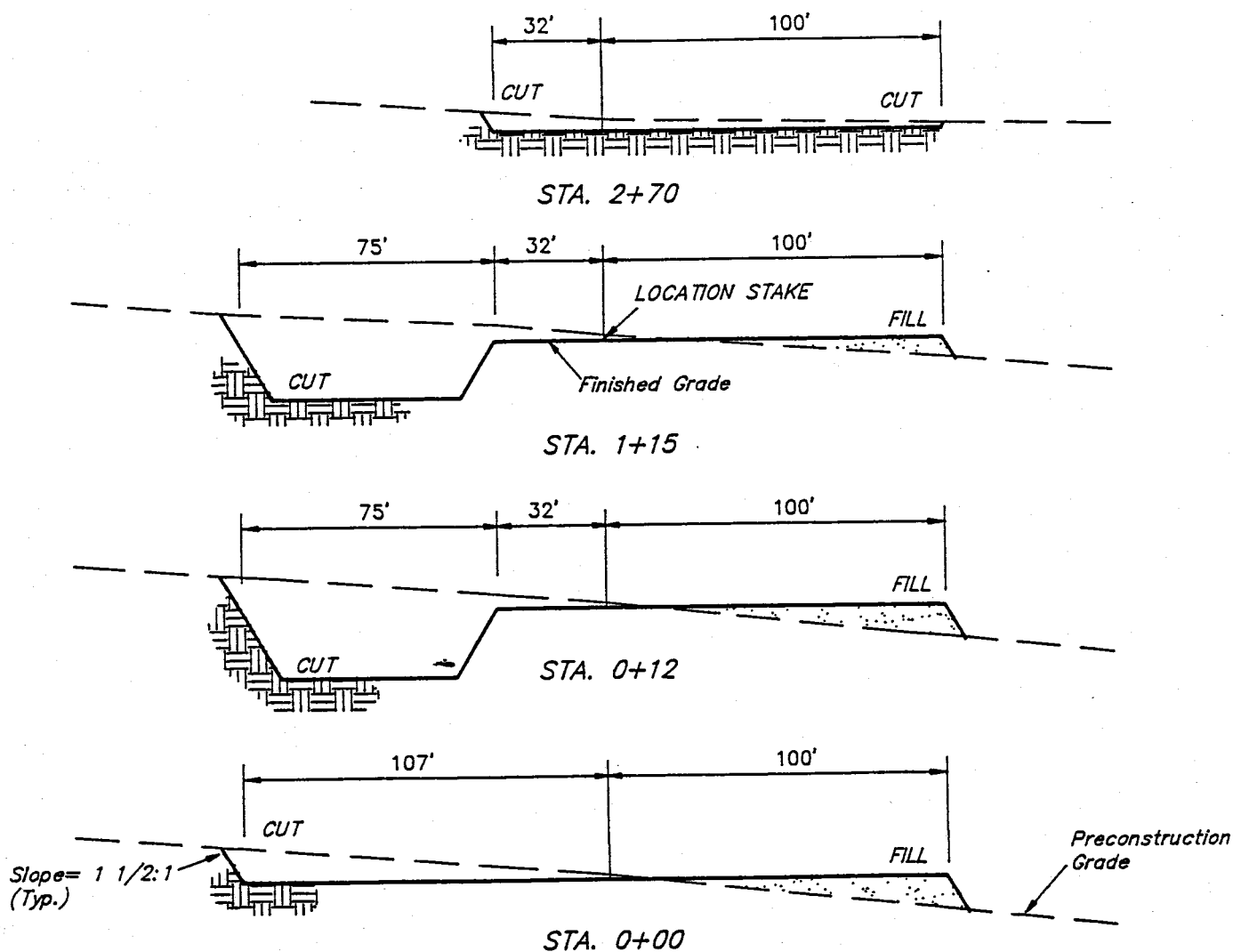
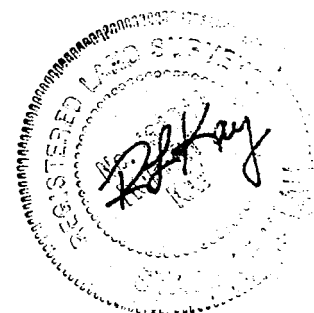
MONUMENT BUTTE #5-1

SECTION 1, T9S, R16E, S.L.B.&amp;M.

1982' FNL 662' FWL



DATE: 2-6-95  
 Drawn By: C.B.T.



## APPROXIMATE YARDAGES

(6") Topsoil Stripping = 840 Cu. Yds.  
 Remaining Location = 2,840 Cu. Yds.

TOTAL CUT = 3,680 CU.YDS.  
 FILL = 1,380 CU.YDS.

EXCESS MATERIAL AFTER  
 5% COMPACTION = 2,230 Cu. Yds.  
 Topsoil & Pit Backfill  
 (1/2 Pit Vol.) = 1,900 Cu. Yds.  
 EXCESS UNBALANCE  
 (After Rehabilitation) = 330 Cu. Yds.

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 85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



# 2-M SYSTEM

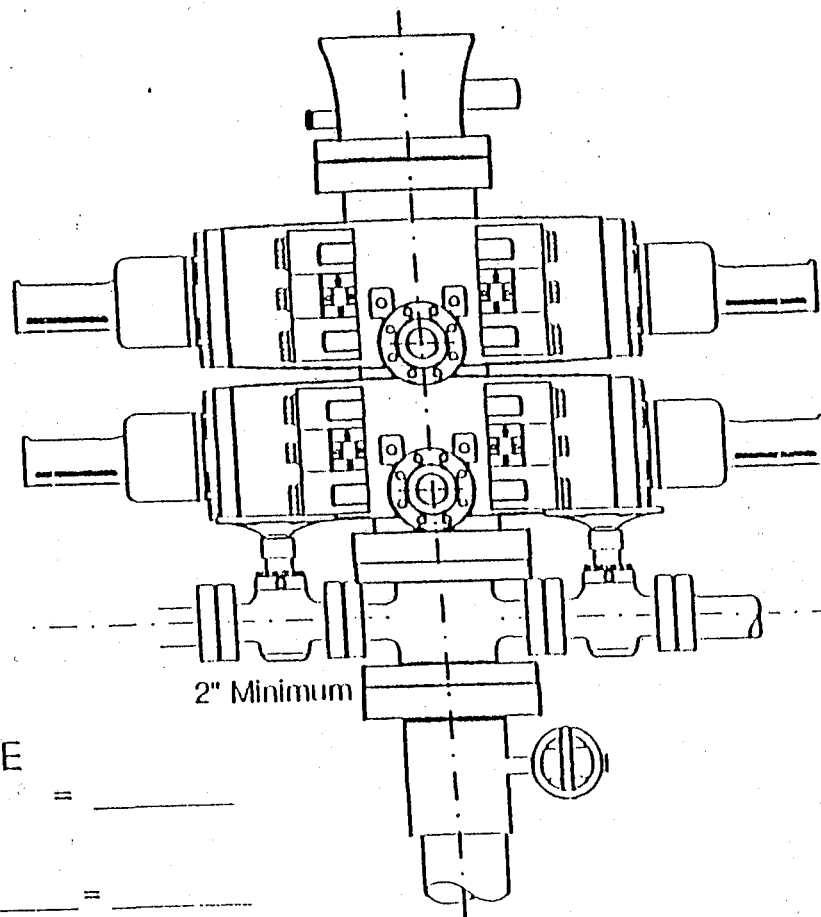
EXHIBIT F

RAM TYPE B.O.P.

Make:

Size:

Model:



2" Minimum

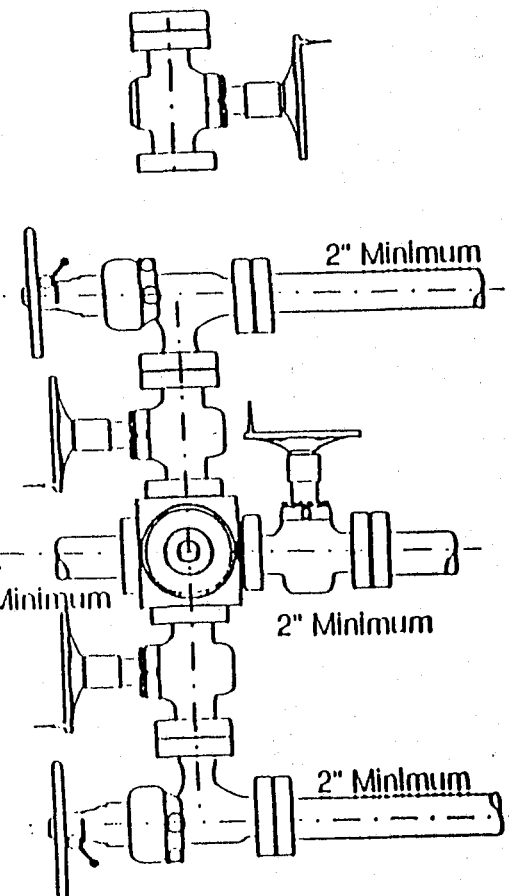
GAL TO CLOSE

Annular BOP = \_\_\_\_\_

Ramtype BOP  
 \_\_\_\_\_ Rams x \_\_\_\_\_ = \_\_\_\_\_

= \_\_\_\_\_ Gal.

\_\_\_\_\_ x 2 = \_\_\_\_\_ Total Gal.



2" Minimum

2" Minimum

2" Minimum

2" Minimum

Rounding off to the next higher  
 increment of 10 gal. would require  
 Gal (total fluid & nitro volume)



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Lomax Exploration Company

3. ADDRESS OF OPERATOR

P.O. Box 1446 Roosevelt, UT 84066 (801) 722-5103

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SW/NW

662' FWL 1982' FNL

At proposed prod. zone

43-012-21507

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

14.3 Miles NW of Myton, Utah

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PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

660'

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17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

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TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1320'

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6500'

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Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5428.4

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First Quarter 1995

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RECEIVED

FEB 13 1995

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Brad Mechem *Brad Mechem* TITLE Operations Manager DATE 2/6/95

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

ASSISTANT DISTRICT  
MANAGER MINERALS

MAR 16 1995

APPROVED BY *Howard R. Young*  
CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPY

\*See Instructions On Reverse Side

NOTICE OF APPROVAL

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Lomax Exploration

Well Name & Number: Monument Federal 5-1

API Number: 43-013-31507

Lease Number: U-72103

Location: SWNW Sec. 1 T. 9S R. 16E

**NOTIFICATION REQUIREMENTS**

- |                                 |   |   |
|---------------------------------|---|---|
| Location Construction           | - | at least forty-eight (48) hours prior to construction of location and access roads.   |
| Location Completion             | - | prior to moving on the drilling rig.  |
| Spud Notice                     | - | at least twenty-four (24) hours prior to spudding the well.   |
| Casing String and Cementing     | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings.   |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests.   |
| First Production Notice         | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.



CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 2M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.



3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

If conductor pipe is set it will be cemented to surface. If drive pipe is used it will be pulled prior to cementing surface casing.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the usable water zone identified at  $\pm 493$  ft. or by setting the surface casing at  $\pm 543$  ft. and have a cement top for the production casing at least 200 ft. above the Mahogany Oil Shale, identified at  $\pm 2976$  ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

The Gamma Ray and Induction Logs need to be pulled from TD to the Surface Shoe.

A cement bond log (CBL) will be run from the production casing shoe to 2776 ft. if the surface casing is set at  $\pm 543$  ft. or it will be run to  $\pm 243$  ft. if the surface casing is set at  $\pm 300$  ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.



Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.



Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b. 4).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.



"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Wayne Bankert           (801) 789-4170  
Petroleum Engineer

Ed Forsman             (801) 789-7077  
Petroleum Engineer

BLM FAX Machine       (801) 781-4410



## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.



**SURFACE USE PLAN OF OPERATIONS**  
Conditions of Approval (COAs)

Plans for Reclamation of Location

The reserve pit and that portion of the location not needed for production facilities or operations in addition to being recontoured to approximate natural contours will also be reseeded to the specifications of the authorized officer of the BLM.

At time of abandonment the intent of reclamation will be to return the disturbed area to near natural conditions. Recontour the surface of the disturbed area to blend all cuts, fills, road berms, and borrow ditches to be natural in appearance with the surrounding terrain. Stockpiled topsoil will be spread over the surface, and the area revegetated to the satisfaction of the authorized officer of the BLM.



WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/13/95

API NO. ASSIGNED: 43-013-31507

WELL NAME: MONUMENT BUTTE FEDERAL 5-1  
OPERATOR: LOMAX EXPLORATION (N0580)

PROPOSED LOCATION:

SWNW 01 - T09S - R16E  
SURFACE: 1982-FNL-0662-FWL  
BOTTOM: 1982-FNL-0662-FWL  
DUCHESNE COUNTY  
MONUMENT BUTTE FIELD (105)

LEASE TYPE: FED  
LEASE NUMBER: U-72103

PROPOSED PRODUCING FORMATION: GRRV

INSPECT LOCATION BY: / /

TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

Y Plat  
Y Bond: Federal ☒ State ☐ Fee ☐  
(Number 4488944)  
N Potash (Y/N)  
N Oil shale (Y/N)  
Y Water permit  
(Number FED 5-35)  
N RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
☒ R649-3-2. General.  
\_\_\_ R649-3-3. Exception.  
\_\_\_ Drilling Unit.  
\_\_\_ Board Cause no: \_\_\_\_\_  
\_\_\_ Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_



T 8 S

T 9 S

FEDERAL 5-1

FEDERAL 6-1

LOMAX MONUMENT BUTTE  
WATER FLOOD DEVELOPMENT  
SEC. 1, T 9 S, R 16 E  
DUCHE SNE COUNTY NO SPACING

R 16 E

R 17 E



# STATE OF UTAH

Operator: LOMAX EXPLORATION CO	Well Name: MONUMENT BUTTE FED 5
Project ID: 43-013-31507	Location: SEC. 01 - T09S - R16E

## Design Parameters:

Mud weight ( 5.33 ppg) : 0.277 psi/ft  
 Shut in surface pressure : 1552 psi  
 Internal gradient (burst) : 0.038 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using buoyed weight  
 Service rating is "Sweet"

## Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)		Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost
1	6,500	5.500	15.50	J-55	LT&C	6,500	4.825	
	Collapse Load Strgth S.F. (psi) (psi)			Burst Load (psi)	Min Int Strgth (psi)	Yield S.F.	Tension Load Strgth S.F. (kips) (kips)	
1	1800	4040	2.245	1800	4810	2.67	92.54	217 2.34 J

Prepared by : FRM, Salt Lake City, UT  
 Date : 03-07-1995  
 Remarks :

Minimum segment length for the 6,500 foot well is 1,000 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas  
 temperature of 107°F (Surface 74°F , BHT 139°F & temp. gradient 1.000°/100 ft.)  
 The mud gradient and bottom hole pressures (for burst) are 0.277 psi/ft and  
 1,800 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guide-  
 line, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with  
 evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body  
 Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and  
 Kemler curve. Engineering responsibility for use of this design will be that of the purchaser.  
 Costs for this design are based on a 1987 pricing model. (Version 1.06)





**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

March 7, 1995

Lomax Exploration Company  
P.O. Box 1446  
Roosevelt, Utah 84066

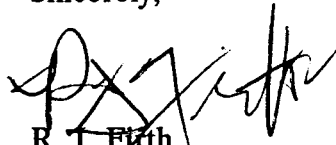
Re: Amended Approval for Monument Butte Federal #5-1 Well, 1982' FNL, 662'  
FWL, SW NW, Sec. 1, T. 9 S., R. 16 E., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Admin. R. 649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31507.

Sincerely,

  
R. J. Flith  
Associate Director

ldc

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office  
WAPD





Operator: Lomax Explroation Company  
Well Name & Number: Monument Butte Federal #5-1  
API Number: 43-013-31507  
Lease: Federal U-72103  
Location: SW NW Sec. 1 T. 9 S. R. 16 E.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.



**Lomax Exploration Company**

A subsidiary of Inland Resources Inc.



July 13, 1995

State of Utah Department of Natural Resources  
Attention: Ms Becky Pritchett  
355 W. North Temple  
3 Triad Center, Suite 400  
Salt Lake City, Utah 84180-1204

**RE: Corporate Name Change**

Dear Sir or Madame:

Effective July 1, 1995, Lomax Exploration Company will have taken the steps necessary to change its name to **Inland Production Company**. A Certificate issued by the Texas Secretary of State evidencing the name change is attached for your files. We have also attached to this letter those Utah State leases (Exhibit "B") and wells (Exhibit "A") affected by this name change. We have attempted to provide a complete list from the records we have. The intent is to include all leases and wells that Lomax Exploration Company operates or has an interest in.

Riders changing the Principal from Lomax Exploration Company to Inland Production Company under Nationwide Oil and Gas Bond # 4488944 for Lomax Exploration Company will be furnished to the State of Utah in the very near future.

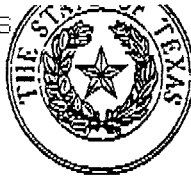
Please amend your records by substituting Inland Production Company in place of Lomax Exploration Company on the leases and wells listed on the attached exhibits. In the future we will begin submitting notices and permits for new operations after July 1, 1995 in the name of Inland Production Company.

Should a fee be required or should you need further information or documents relating to our name change please contact the undersigned at your convenience at the following number: (303) 292-0900 or Cheryl Cameron at our Roosevelt, Utah office (801) 722-5103.

Sincerely yours,

Chris A Potter, CPL  
Manager of Land





# The State of Texas

Secretary of State  
JUNE 30, 1995

MIKE PARSONS...GLAST, PHILLIPS & MURRAY  
2200 ONE GALLERIA TWR, 13355 NOEL RD, LB48  
DALLAS ,TX 75240-6657

RE:  
INLAND PRODUCTION COMPANY  
CHARTER NUMBER 00415304-00


IT HAS BEEN OUR PLEASURE TO APPROVE AND PLACE ON RECORD YOUR ARTICLES OF AMENDMENT. A COPY OF THE INSTRUMENT FILED IN THIS OFFICE IS ATTACHED FOR YOUR RECORDS.

THIS LETTER WILL ACKNOWLEDGE PAYMENT OF THE FILING FEE.

IF WE CAN BE OF FURTHER SERVICE AT ANY TIME, PLEASE LET US KNOW.

VERY TRULY YOURS,



  
Antonio O. Garza, Jr., Secretary of State





# The State of Texas

## Secretary of State

### CERTIFICATE OF AMENDMENT

FOR

INLAND PRODUCTION COMPANY

FORMERLY

LOMAX EXPLORATION COMPANY  
CHARTER NUMBER 00415304

THE UNDERSIGNED, AS SECRETARY OF STATE OF THE STATE OF TEXAS,  
HEREBY CERTIFIES THAT THE ATTACHED ARTICLES OF AMENDMENT FOR THE ABOVE  
NAMED ENTITY HAVE BEEN RECEIVED IN THIS OFFICE AND ARE FOUND TO  
CONFORM TO LAW.

ACCORDINGLY THE UNDERSIGNED, AS SECRETARY OF STATE, AND BY VIRTUE  
OF THE AUTHORITY VESTED IN THE SECRETARY BY LAW, HEREBY ISSUES THIS  
CERTIFICATE OF AMENDMENT.

DATED JUNE 29, 1995

EFFECTIVE JUNE 29, 1995



  
Antonio O. Garza, Jr., Secretary of State



ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
LOMAX EXPLORATION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas

JUN 29 1995

Corporations Section

Pursuant to the provisions of Part Four of the Texas Business Corporation Act, the undersigned corporation adopts the following articles of amendment to its Articles of Incorporation:

1. Name. The name of the corporation is LOMAX EXPLORATION COMPANY.
2. Statement of Amendment. The amendment alters or changes Article One of the original Articles of Incorporation to read in full as follows:

"Article One. The name of the corporation is INLAND PRODUCTION COMPANY."

3. Shareholders. The number of shares of the corporation outstanding at the time of such adoption was 205,315, there being 107,546 Common Shares and 97,769 Non-voting Preferred Shares; and the number of shares entitled to vote thereon was 107,546.

4. Adoption by Shareholders. Only the holders of Common Shares of the corporation are entitled to vote on the amendment. The shareholders adopted the foregoing amendment by unanimous written consent dated June 23, 1995, pursuant to the provisions of Article 9.10 of the Texas Business Corporation Act and, therefore, no notice was required to be delivered under said Article 9.10.

5. Adoption by Board of Directors. The Board of Directors adopted said amendment by a consent in writing signed by all Directors.

6. Future Effective Date. This amendment will become effective on July 1, 1995, at 12:01 a.m.

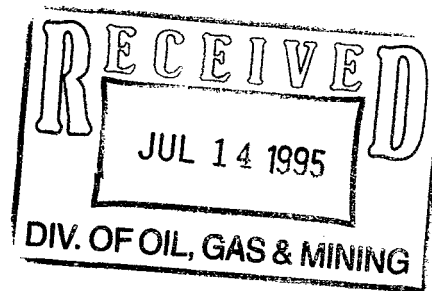
EXECUTED June 26, 1995.

  
\_\_\_\_\_  
Kyle R. Miller, President



Lomax Exploration Company

A subsidiary of Inland Resources Inc.



*Announcing*  
*Our Name Change*

*From*

**Lomax Exploration Company**

*To*

**Inland Production  
Company**

*\* N 5160 assigned 7/26/95. Lee*

*Field And Corporate Office Locations Remain The Same:*

Corporate Office:

Inland Resources Inc.

475 Seventeenth Street, Suite 1500

Denver, CO 80202

Field Office:

W. Pole Line Road

P.O. Box 1446

Roosevelt, Utah 84066



DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: LOMAX EXPLORATION

Well Name: MONUMENT FEDERAL 5-1

Api No. 43-013-31507

Section 1 Township 9S Range 16E County DUCHESNE

Drilling Contractor APOLLO

Rig # 59

SPUDDED: Date 7/24/95

Time 11:00 AM

How DRY HOLE

Drilling will commence

Reported by CHERYL

Telephone # 1-801-722-5103

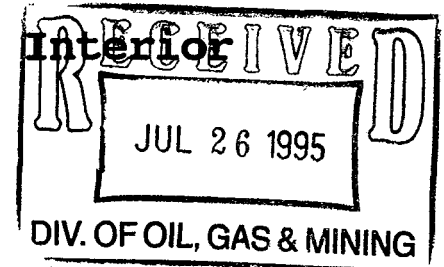
Date: 7/25/95 Signed: MKH



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155



JUL 25 1995

IN REPLY REFER TO:  
3100  
SL-065914 et al  
(UT-923)

NOTICE

Inland Production Company : Oil and Gas Leases  
475 Seventeenth St., Ste. 1500 : SL-065914 et al  
Denver, Colorado 80202 :

Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of Lomax Exploration Company to Inland Production Company on Federal oil and gas leases.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

For our purposes, the name change is recognized effective June 29, 1995 (Secretary of State's approval date).

Due to the name change, the name of the principal/obligor on the bond is required to be changed from Lomax Exploration Company to Inland Production Company on Bond No. 4488944 (BLM Bond No. UT0056). You may accomplish this name change either by consent of the surety on the original bond or by a rider to the original bond. Otherwise, a replacement bond with the new name should be furnished to this office. BLM Bond Nos. MT0771 and WY0821 should also be changed for the bonds held by Montana and Wyoming respectively.

/s/ ROBERT LOPEZ

Chief, Branch of Mineral  
Leasing Adjudication

Enclosure  
1-Exhibit (1 p)

cc: Hartford Accident & Indemnity Co.  
Hartford Plaza  
Hartford, CT 06115

bc: Moab District Office  
Vernal District Office  
Montana State Office  
Wyoming State Office  
Eastern States Office  
MMS--Data Management Division, MS 3113, P.O. Box 5860, Denver, CO 80217  
State of Utah, Attn: Lisha Cordova, Division of Oil, Gas & Mining,  
355 West North Temple, 3 Triad Center, Suite 350, SLC, UT 84180  
Teresa Thompson (UT-922)  
Dianne Wright (UT-923)



**EXHIBIT**

SL-065914	U-36846	UTU-66185
SL-071572A	U-38428	UTU-67170
U-02458	U-45431	UTU-68548
U-15855	U-47171	UTU-69060
U-16535	U-50376	UTU-69061
U-26026	U-62848	UTU-72103
U-34173	UTU-65965	UTU-72104
U-36442	UTU-66184	UTU-73088



OPERATOR Lomax Exploration Co

OPERATOR ACCT. NO. 10580

ADDRESS P.O. Box 1446

Roosevelt, UT 84066

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	11796	43-013-31507	Monument Butte Federal #5-1	SWNW	1	9S	16E	Duchesne	7/24/95	7/24/95
WELL 1 COMMENTS: <i>Entity added 7-27-95 fee</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- D - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Cheryl Cameron

Signature

Secretary

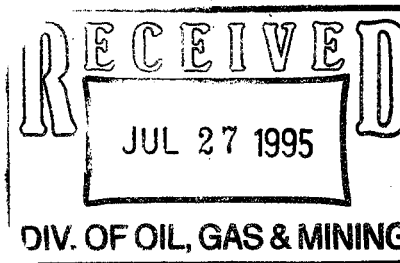
*Cheryl Cameron*

7/26/95

Title

Phone No. 801 722-5103

Date





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

5. Lease Designation and Serial No.  
U-72103

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Monument Butte Federal 5-1

9. API Well No.

43-013-31507

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, Utah

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Lomax Exploration Company

3. Address and Telephone No.

P.O. Box 1446 Roosevelt, UT 84066 (801) 722-5103

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW/NW 662' FWL & 1982' FNL

Sec. 1, T9S, R16E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☐ Other Weekly Status

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

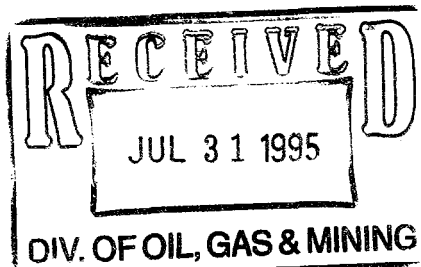
WEEKLY STATUS REPORT FOR WEEK OF 7/19/95 - 7/25/95:

7/19: Building Location

7/25: Drilled 305' of 12 1/4" hole w/ Leon Ross Rathole Rig.

Spud @ 11:00 AM 7/24/95

Cmt w/ 120 sx Class G + 2% CaCl w/ 1/4#/sk flocele



14. I hereby certify that the foregoing is true and correct

Signed Cheryl Cameron Title Secretary

Date 7/25/95

(This space for Federal or State office use)

Approved by  
Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



FAX COVER SHEET



RESOURCES INC.  
475 17th Street, Suite 1500  
Denver, CO 80202  
303-292-0900, Fax #303-296-4070

DATE: August 8, 1995

TO: Lisha Cordova

COMPANY: State of Utah - Division of Oil, Gas and Mining

FAX NUMBER: 801 359 3940

FROM: Chris A Potter

NUMBER OF PAGES: 1 (INCLUDING COVER SHEET):

---

RE: Transfer of Authority to Inject  
Lomax Exploration Company to Inland Production Company

I hope the info I sent to you August 1st was acceptable regarding our name change and your phone call to me last week.....

If there is anything missing or you need additional info, please let me know. I am located in our Denver office.....



✓ MONUMENT BUTTE 16-34	43-013-31436	SEC. 34, T. 8S, R. 16E	DRL U16535
✓ BOUNDARY FEDERAL 14-21	43-013-31441	SEC. 21, T. 8S, R. 17E	DRL U50376
✓ GILSONITE STATE 10-32	43-013-31485	SEC. 32, T. 8S, R. 17E	DRL ML22061
✓ GILSONITE STATE 8-32	43-013-31498	SEC. 32, T. 8S, R. 17E	DRL ML22061
✓ MONUMENT FEDERAL 5-34	43-013-31499	SEC. 34, T. 8S, R. 16E	DRL U16535
✓ MONUMENT BUTTE FED 15-26	43-013-31502	SEC. 26, T. 8S, R. 16E	DRL U67170
✓ MONUMENT BUTTE ST 16-2	43-013-31510	SEC. 2, T. 9S, R. 16E	DRL ML21839
✓ MONUMENT BUTTE ST 8-2	43-013-31509	SEC. 2, T. 9S, R. 16E	DRL ML21839
✓ MONUMENT BUTTE FED 5-1	43-013-31507	SEC. 1, T. 9S, R. 16E	DRL U72103
✓ MONUMENT BUTTE FED 6-1	43-013-31506	SEC. 1, T. 9S, R. 16E	DRL U72103
✓ MONUMENT BUTTE FED 15-34	43-013-31511	SEC. 34, T. 8S, R. 16E	DRL U62848
✓ MONUMENT BUTTE FED 13-25	43-013-31513	SEC. 25, T. 8S, R. 16E	DRL U67170
✓ MONUMENT BUTTE 16-26	43-013-31517	SEC. 26, T. 8S, R. 16E	DRL U67170
✓ TRAVIS FEDERAL 8-33	43-013-31503	SEC. 33, T. 8S, R. 16E	DRL U34173
✓ PARIETTE DRAW FED 10-23	43-047-32672	SEC. 23, T. 8S, R. 17E	DRL U45431
✓ PARIETTE DRAW FED 8-23	43-047-32676	SEC. 23, T. 8S, R. 17E	DRL U45431
✓ PARIETTE DRAW FED 7-23	43-047-32673	SEC. 23, T. 8S, R. 17E	DRL U45431
✓ SUNDANCE STATE 5-32	43-047-32685	SEC. 32, T. 8S, R. 18E	DRL ML22058
✓ MONUMENT BUTTE ST 14-36	43-013-31508	SEC. 36, T. 8S, R. 16E	DRL ML22061
✓ ASHLEY FEDERAL 10-23	43-013-31519	SEC. 23, T. 9S, R. 15E	DRL U66185
✓ MONUMENT FEDERAL 1A-35	43-013-31514	SEC. 35, T. 8S, R. 16E	DRL U16535
✓ OK CORRAL FEDERAL 1-30	43-047-32686	SEC. 30, T. 9S, R. 18E	DRL U19267
✓ S PLEASANT VALLEY 4-22	43-013-31522	SEC. 22, T. 9S, R. 17E	DRL U13905
✓ CODY FEDERAL 2-35	43-013-31525	SEC. 35, T. 8S, R. 15E	DRL UTU67168
✓ GILSONITE STATE 14I-32	43-013-31523	SEC. 32, T. 8S, R. 17E	DRL ML21839
✓ BOUNDARY FEDERAL 10-21	43-013-31532	SEC. 21, T. 8S, R. 17E	DRL U50376
✓ MONUMENT BUTTE ST 16-36R	43-013-10159	SEC. 36, T. 8S, R. 16E	DRL ML22061
✓ BOUNDARY FEDERAL 9-21	43-013-31542	SEC. 21 T. 8S, R. 17E	DRL U50376

APD's Pending; have not been approved by BLM as of yet.  
 (Leases are held by Inland) \* 8-7-95 / BLM SL "Connie Seare"



Division of Oil, Gas and Mining  
OPERATOR CHANGE WORKSHEET

Attach all documentation received by the division regarding this change.  
Initial each listed item when completed. Write N/A if item is not applicable.

Routing: (GIL)	
1-DEC 7-PL	✓
2-LWP 8-SJ	✓
3-DTS 9-FILE	✓
4-VLO	✓
5-RJF	✓
6-LWP	✓

- ☒ Change of Operator (well sold)      ☐ Designation of Agent  
☐ Designation of Operator      ☐ Operator Name Change Only

(MERGER)

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 6-29-95)

TO (new operator) INLAND PRODUCTION COMPANY  
(address) PO BOX 1446  
ROOSEVELT UT 84066  
KEBBIE JONES  
phone ( 801 ) 722-5103  
account no. N 5160

FROM (former operator) LOMAX EXPLORATION COMPANY  
(address) PO BOX 1446  
ROOSEVELT UT 84066  
KEBBIE JONES  
phone ( 801 ) 722-5103  
account no. N 0580

Well(s) (attach additional page if needed):

Name: <b>**SEE ATTACHED**</b>	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 7-14-95)
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- Sec 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) (no) If yes, show company file number: \_\_\_\_\_ (7-28-95)
- Sec 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (7-31-95)
- LWP 6. Cardex file has been updated for each well listed above. 8-16-95
- LWP 7. Well file labels have been updated for each well listed above. 8-22-95
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (7-31-95)
- Sec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.



### ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

### BOND VERIFICATION (~~Fee wells only~~) *Trust Lands Admin. / Rider or Repl. in Progress.*

- N/A Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- \_\_\_ 2. A copy of this form has been placed in the new and former operators' bond files.
- \_\_\_ 3. The former operator has requested a release of liability from their bond (yes/no) \_\_\_. Today's date \_\_\_\_\_ 19\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_.

### LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- OTS 2. Copies of documents have been sent to State Lands for changes involving State leases.  
*8/23/95 sent to Ed Bonner*

### FILMING

- \_\_\_ 1. All attachments to this form have been microfilmed. Date: \_\_\_\_\_ 19\_\_.

### FILING

- \_\_\_ 1. Copies of all attachments to this form have been filed in each well file.
- \_\_\_ 2. The original of this form and the original attachments have been filed in the Operator Change file.

### COMMENTS

*950726 BLM/SL Appr. eff. 6-29-95.*



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**Inland Production Company**

3. Address and Telephone No.

**P.O. Box 1446 Roosevelt, UT 84066 (801) 722-5103**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SW/NW 662' FWL & 1982' FNL**

**Sec. 1, T9S, R16E**

5. Lease Designation and Serial No.

**U-72103**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**Mon. Butte Federal #5-1**

9. API Well No.

**43-013-31507**

10. Field and Pool, or Exploratory Area

**Monument Butte**

11. County or Parish, State

**Duchesne County, UT**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other **Weekly Status**

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**WEEKLY STATUS REPORT FOR WEEK OF 10/3/95 - 10/9/95:**

Drilled 7 7/8" hole from 305' - 6087' w/ Kenting Apollo, Rig #59.  
Run 6076' of 5 1/2" J-55 Csg. Cmt w/ 255 sx Hifill, 325 sx Cal-Seal.  
ND BOP. Set slips. Clean mud tanks.

**W/O Completion Rig**

OCT 16 1995

14. I hereby certify that the foregoing is true and correct

Signed **Cheryl Cameron** Title **Secretary/Drilling & Completion** Date **10/12/95**

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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**SUBMIT IN TRIPLICATE**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
**Inland Production Company**

3. Address and Telephone No.  
**P.O. Box 1446 Roosevelt, UT 84066**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SW/NW 662' FWL & 1982' FNL  
Sec. 1, T9S, R16E**

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**U-72103**

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**Mon Butte Fed. #5-1**

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**Duchesne County, UT**

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☐ Altering Casing  
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- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)

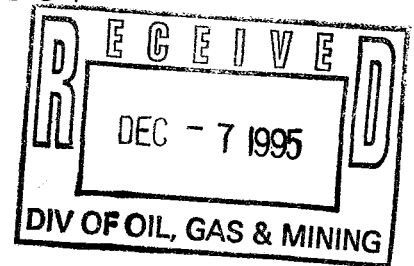
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

**Weekly Status Report for week of 11/10/95 - 11/15/95**

11/10/95: Perf A sd 5257' - 63', 5296' - 5301'  
Frac w/ 86,800# 20/40 & 27,365 gal gel

11/12/95: Perf B sd 5074' - 85', 5090' - 93', 5095' - 98'  
Frac w/ 89,500# 20/40 sd & 24,797 gal gel

11/15/95: Perf D sd 4785' - 94', 4830' - 39', 4867' - 74', 4891' - 97'  
Breakdown perfs w/ 101 bbls 2% KCL wtr & 200 Ball sealers @ 7 BPM.  
Surge Balls off.  
Frac w/ 110,000# 20/40 sd & 32,503 gal gel



14. I hereby certify that the foregoing is true and correct

Signed **Brad Mecham** *Brad Mecham* Title **Operations Manager**

Date **12/04/95**

(This space for Federal or State office use) *OCameron*

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

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**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

**Inland Production Company**

3. Address and Telephone No.

**P.O. Box 1446 Roosevelt, UT 84066**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SW/NW**

**Sec. 1 T9S, R16E**

5. Lease Designation and Serial No.

**U-72103**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

**Monument Butte Fed #5-1**

9. API Well No.

**43-013-31507**

10. Field and Pool, or Exploratory Area

**Monument Butte**

11. County or Parish, State

**Duchesne County, UT**

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TYPE OF ACTION

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☐ Altering Casing  
☒ Other Weekly Status

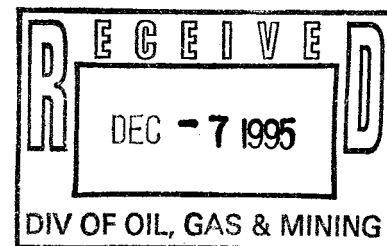
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☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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11/21/95: RIH w/ 1 1/2" THD Trico pump, 4 - 1 1/2" wt bars,  
4 - 3/4" scraped, 93 - 3/4" plain, 98 - 3/4" scraped,  
1 1/2" polished rod. Seat pump.

ON PRODUCTION @ 5:00 p.m. 11/20/95



14. I hereby certify that the foregoing is true and correct

Signed **Brad Mechem** Title **Operations Manager**

Date **12/04/95**

(This space for Federal or State office use)

Approved by

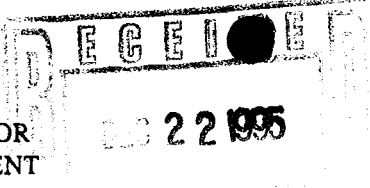
Title

Date

Conditions of approval, if any:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

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**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

P.O. Box 1446 Roosevelt, UT 84066 (801) 722-5103

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW/NW 662' FWL & 1982' FNL  
Sec. 1, T9S, R16E

5. Lease Designation and Serial No.

U-72103

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Mon. Butte Fed. #5-1

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Inland Production Company is requesting authorization to vent gas beyond the 30 day allowable, for an additional 60 days. This well is currently venting 80 MCFD. Inland is actively pursuing a gas sales contract and pipeline ROW, and expects to have these in place, within 60 days.

14. I hereby certify that the foregoing is true and correct

Signed Brad Mecham Title Operations Manager

Date 12/20/95

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

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\*See Instruction on Reverse Side



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

LEASE DESIGNATION AND SERIAL NO.

U-72103

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>				11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA			
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other <input type="checkbox"/>				12. COUNTY OR PARISH			
2. NAME OF OPERATOR Inland Production Company				13. STATE UT			
3. ADDRESS OF OPERATOR P.O. Box 1446 Roosevelt, UT 84066				14. PERMIT NO. 43-013-31507			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface SW/NW				DATE ISSUED 3/7/95			
At top prod. interval reported below 662' FWL & 1982' FNL				15. DATE SPUDDED 7/24/95			
At total depth				16. DATE T.D. REACHED 10/9/95			
17. DATE COMPL. (Ready to prod.) 11/20/95				18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5428.4' GR			
20. TOTAL DEPTH, MD & TVD 6087'				21. PLUG, BACK T.D., MD & TVD 6042'			
22. IF MULTIPLE COMPL., HOW MANY*				23. INTERVALS DRILLED BY X			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5257'-63', 5296'-5301'; 5074'-85', 5090'-93', 5095'-98' 4785'-94', 4830'-39', 4867'-74', 4891'-97' (GRRV)				25. WAS DIRECTIONAL SURVEY MADE No			
26. TYPE ELECTRIC AND OTHER LOGS RUN CBL, CNL, DLL 12-7-95				27. WAS WELL CORED No			
28. CASING RECORD (Report all strings set in well)							
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
8 5/8		24#		300'		12 1/4	
5 1/2		15.5#		6087'		7 7/8	
29. LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
30. TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
31. PERFORATION RECORD (Interval, size and number)							
A Sd 5257'-63', 5296'-5301'							
B Sd 5074'-85', 5090'-93', 5095'-98'							
D Sd 4785'-94', 4830'-39', 4867'-74', 4891'-97'							
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
* See Back							
33.* PRODUCTION							
DATE FIRST PRODUCTION 11/20/95		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping - 1 1/2" THD Trico pump				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 12/10/95		HOURS TESTED 24		CHOKE SIZE N/A		PROD'N. FOR TEST PERIOD 135	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL. 120	
						GAS—MCF. 55	
						WATER—BBL. .889	
						OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold & Used for Fuel							
35. LIST OF ATTACHMENTS None							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED Brad Mecham				TITLE Operations Manager		DATE 12/20/95	

\*(See Instructions and Spaces for Additional Data on Reverse Side)



37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

GEOLOGIC MARKERS.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch	4074'		#32			
Point 3	4336'					
X Marker	4587'		Perf A Sd 5257'-63', 5296'-5301'			
Y Marker	4622'		Frac w/ 86,800# 20/40 sd in 27,365 gal gel			
Douglas Creek	4743'					
Bicarbonate	4994'		Perf B Sd 5074'-85', 5090'-5093', 5095'-98'			
B Limestone	5126'		Frac w/ 89,500# 20/40 sd in 24,797 gal gel			
Castle Peak	5594'		Perf D sd 4785'-94', 4830'-39'			
			4867'-74', 4891'-97'			
			Breakdown perfs w/ 101 bbls 2% KCL wtr & 200 ball sealers @ 7 BPM			
			Frac w/ 110,000# 20/40 sd in 32,503 gal gel			





State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

December 29, 1995

Brad Mecham, Operations Manager  
Inland Production Company  
P. O. Box 1446  
Roosevelt, Utah 84066

Re: Monument Butte Federal 5-1, Section 1, Township 9 South, Range 16 East,  
Duchesene County, Utah -Request to Flare Gas.

Dear Mr. Mecham:

Pursuant to your request dated December 20, 1995, Inland Production Company ("Inland") is authorized to vent/flare gas during the time necessary for pipeline negotiations, not to exceed a period of 30 days or the production of 50MMCF of gas, whichever occurs first. This authorization represents the full administrative capability of the Division of Oil, Gas and Mining ("Division") pursuant to Utah Adm. Code R649-3-20, for venting/flaring gas during testing and well evaluation.

Should Inland desire to vent/flare gas beyond this authorization, Inland must submit a Request for Agency Action to the Board of Oil, Gas and Mining to be considered as a formal board docket item.

Inland is required to notify the Division when pipeline negotiations are completed. If additional information is required regarding this authorization, please contact Frank Matthews at the Division.

Sincerely,

R. J. Firth  
Associate Director





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

22 1995

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Inland Production Company

3. Address and Telephone No.  
P.O. Box 1446 Roosevelt, UT 84066 (801) 722-5103

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
SW/NW 662' FWL & 1982' FNL  
Sec. 1, T9S, R16E

5. Lease Designation and Serial No.

U-72103

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Mon. Butte Fed. #5-1

9. API Well No.

43-013-31507

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne County, UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Extended Vent Request

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Inland Production Company is requesting authorization to vent gas beyond the 30 day allowable, for an additional 60 days. This well is currently venting 80 MCFD. Inland is actively pursuing a gas sales contract and pipeline ROW, and expects to have these in place, within 60 days.

14. I hereby certify that the foregoing is true and correct

Signed Brad Mecham Title Operations Manager

Date 12/20/95

(This space for Federal or State office use)

Approved by  
Conditions of approval, if any:

Title Petroleum Engineer

Date 12/29/95

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

**U-72103**

6. If Indian, Allottee or Tribe Name

**NA**

7. If Unit or CA, Agreement Designation

**NA**

8. Well Name and No.

**MONUMENT BUTTE FEDERAL 5-1**

9. API Well No.

**43-013-31507**

10. Field and Pool, or Exploratory Area

**MONUMENT BUTTE**

11. County or Parish, State

**DUCHESNE COUNTY, UTAH**

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil  
Well

☐ Gas  
Well

☐ Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**475 17TH STREET, SUITE 1500, DENVER, COLORADO 80202 (303) 292-0900**

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

~~1984~~ FNL 0666 FWL  
1982 662

**SW/NW Section 1, T09S R16E**

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

**TYPE OF SUBMISSION**

☐

Notice of Intent

☒

Subsequent Report

☐

Final Abandonment Notice

**TYPE OF ACTION**

☐

Abandonment

☐

Recompletion

☐

Plugging Back

☐

Casing Repair

☐

Altering Casing

☒

Other **Site Security**

☐

Change of Plans

☐

New Construction

☐

Non-Routine Fracturing

☐

Water Shut-Off

☐

Conversion to Injection

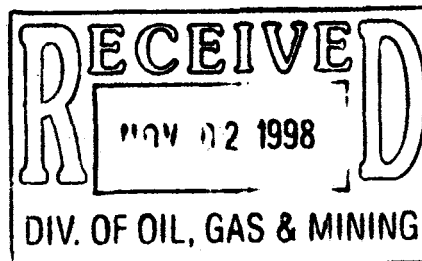
☐

Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is direction-ally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Attached please find the site security diagram for the above referenced well.



14. I hereby certify that the foregoing is true and correct

Signed

*Dickie E. Knight*

Title

**Manager, Regulatory Compliance**

Date

**10/28/98**

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

**CC: UTAH DOGM**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



# Inland Production Company Site Facility Diagram

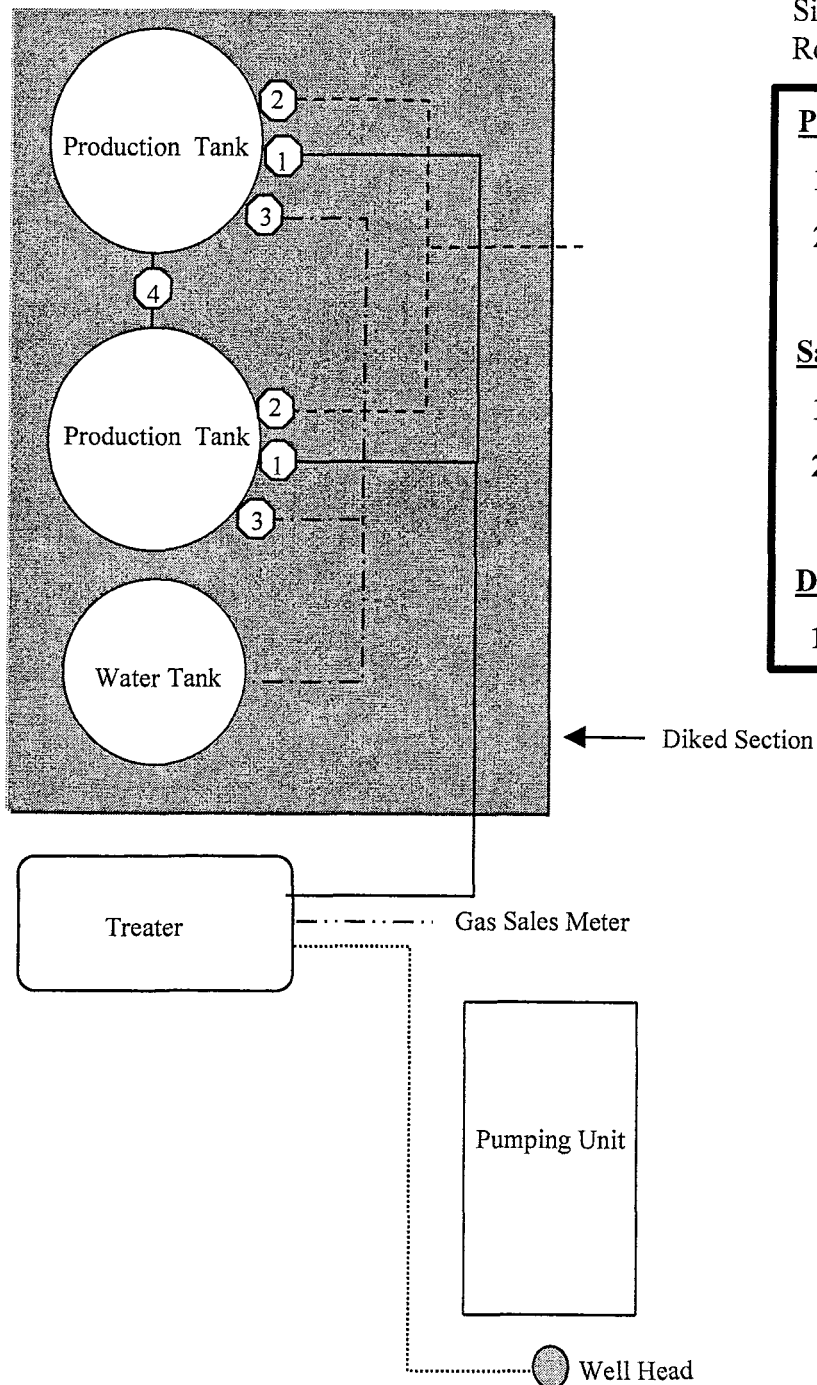
Monument Butte 5-1

SW/NW Sec. 1, T9S, 16E

Duchesne County

Sept. 17, 1998

Site Security Plan is held at the Roosevelt Office,  
Roosevelt Utah



## Production Phase:

- 1) Valves 1, and 3 sealed closed
- 2) Valves 2 and 4 sealed open

## Sales Phase:

- 1) Valves 2, 3, and 4 sealed closed
- 2) Valves 1 open

## Draining Phase:

- 1) Valve 3 open

## Legend

Emulsion Line	.....
Load Line	-----
Water Line	- . - . - .
Oil Line	—————
Gas Sales	- . - . - .



**EQUIPMENT INVENTORY  
UTAH DIVISION OF OIL, GAS AND MINING  
STATE OF UTAH**

Operator: INLAND PRODUCTION Lease: State:        Federal: Y Indian:        Fee:       

Well Name: MON BUTTE FEDERAL #5-1 API Number: 43-013-31505 <sup>31507</sup>

Section: 1 Township: 9S Range: 16E County: DUCHESNE Field: MONUMENT BUTTE

Well Status: POW Well Type: Oil: YES Gas:       

**PRODUCTION LEASE EQUIPMENT: (NUMBER)**

Boiler(s):        Compressor(s):        Separator(s):        Dehydrator(s):       

Shed(s):        Line Heater(s):        Heated Separator(s):        VRU:       

Heater Treater(s): (1)

**PUMPS:**

Triplex:        Chemical:        Centrifugal: (1)

**LIFT METHOD:**

Pumpjack: YES Hydraulic:        Submersible:        Flowing:       

**GAS EQUIPMENT: (NUMBER)**

Purchase Meter:        Sales Meter: (1)

**TANKS:**

**NUMBER**

**SIZE**

Oil Storage Tank(s): YES 2-400 OIL BBLS

Water Tank(s): YES 1-200 WATER BBLS

Power Water Tank: NO        BBLS

Condensate Tank(s): NO        BBLS

Propane Tank: NO

**Central Battery Location: (IF APPLICABLE)**

Qtr/Qtr:        Section:        Township:        Range:       

REMARKS: CENTRIFUGAL PUMP IS FOR HEAT TRACE. GLYCOL IS HEATED BY TREATER.

SALES LINE NOT YET RUN. EQUIPMENT IS RUNNING ON RESIDUE GAS FROM PLANT.

Inspector: DENNIS L. INGRAM Date: 12/14/95



INLAND PRODUCTION CO  
MON BUTTE FED #5-1  
Sec 1 ; T9S ; R16E  
POW

43-013-31505

*[Signature]*

12/14/98

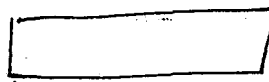
#6-1

↑ EAST

#5-1

WELLHEAD

Pump Jack

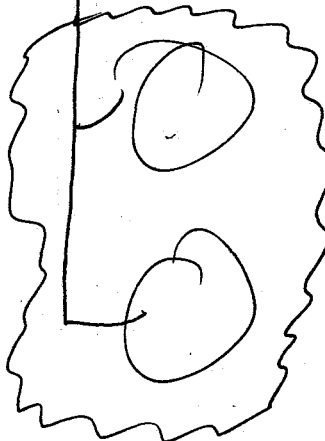


TREATER

gas  
Line



1-200 WATER



2-400  
OIL





November 8, 2000

Mr. Dan Jarvis  
State of Utah  
Division of Oil, Gas and Mining  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Monument Butte Federal #5-1-9-16  
Monument Butte Field, Lease #ML-72103  
Section 1-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Jarvis:

Inland Production Company herein requests approval to convert the Monument Butte Federal #5-1-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact Joyce McGough or George Rooney at (303) 893-0102.

Sincerely

Bill Pennington  
Chief Executive Officer

**RECEIVED**

DEC 13 2000

DIVISION OF  
OIL, GAS AND MINING



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Inland Production Company  
ADDRESS 410 17th Street, Suite 700  
Denver, Colorado 80202

Well Name and number:		<u>Monument Butte Federal #5-1-9-16</u>	
Field or Unit name:		<u>Monument Butte (Green River)</u>	Lease No. <u>UTU-72103</u>
Well Location: QQ <u>SW/NW</u> section <u>1</u> township <u>9S</u> range <u>16E</u> county <u>Duchesne</u>			
Is this application for expansion of an existing project? . . . . . Yes [ X ] No [ ]			
Will the proposed well be used for:			
Enhanced Recovery? . . . . .		Yes [ X ] No [ ]	
Disposal? . . . . .		Yes [ ] No [ X ]	
Storage? . . . . .		Yes [ ] No [ X ]	
Is this application for a new well to be drilled? . . . . . Yes [ ] No [ X ]			
If this application is for an existing well,			
has a casing test been performed on the well? . . . . .		Yes [ ] No [ X ]	
Date of test: <u>Will be done at time of conversion</u>			
API number: <u>43-013-31507</u>		<u>213-7.2 (Noticed 1-4-01 UIC-268)</u>	
Proposed injection interval: from <u>4785'</u> to <u>5301'</u>			
Proposed maximum injection: rate <u>500</u> pressure <u>1572</u> psig			
Proposed injection zone contains [ x ] oil, [ ] gas, and/or [ ] fresh water within 1/2 mile of the well.			
<div style="border: 1px solid black; padding: 5px; display: inline-block;">IMPORTANT: Additional information as required by R615-5-2 should accompany this form.</div>			
List of Attachments: <u>Attachments "A" through "G-1"</u>			
I certify that this report is true and complete to the best of my knowledge.			
Name: <u>Bill Pennington</u>		Signature <u><i>Bill Pennington</i></u>	
Title <u>Chief Executive Officer</u>		Date <u>November 8, 2000</u>	
Phone No. <u>(303) 893-0102</u>			
(State use only)			
Application approved by _____		Title _____	
Approval Date _____			

Comments:

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DIVISION OF  
OIL, GAS AND MINING



**INLAND PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**MONUMENT BUTTE FEDERAL #5-1-9-16**  
**MONUMENT BUTTE (GREEN RIVER) FIELD**  
**LEASE #UTU-72103**  
**NOVEMBER 8, 2000**

**RECEIVED**

**DEC 13 2000**

**DIVISION OF  
OIL, GAS AND MINING**



## TABLE OF CONTENTS

Letter of Intent	
Cover Page	
Table of Contents	
UIC Form 1 – Application for Injection Well	
Work Procedure for Injection Conversion	
Wellbore Diagram of Proposed Injection Well (Monument Butte Federal #5-1-9-16)	
Completed Rule R615-5-1 Questionnaire	
Completed Rule R615-5-2 Questionnaire	
Attachment A	One-Half Mile Radius Map
Attachment A-1	Well Location Plat
Attachment A-2	Site Facility Diagram
Attachment B	Listing of Surface Owners and their Addresses
Attachment C	Certification for Surface Owner Notification
Attachment D-1	Wellbore Diagram – Monument Butte Federal #5-1-9-16
Attachment D-2	Wellbore Diagram – Monument Butte Federal #1-1-9-16
Attachment D-3	Wellbore Diagram – Monument Butte Federal #4-1-9-16
Attachment D-4	Wellbore Diagram – Monument Butte Federal #6-1-9-16
Attachment D-5	Wellbore Diagram – Monument Butte Federal #1-14-9-16
Attachment D-6	Wellbore Diagram – Monument Butte Federal #1-23-9-16
Attachment D-7	Wellbore Diagram – Balcron Monument Federal #32-1J-9-16
Attachment D-8	Wellbore Diagram – Monument Butte State #1-2-9-16
Attachment D-9	Wellbore Diagram – Monument Butte State #8-2-9-16
Attachment D-10	Wellbore Diagram – Monument Butte State #9-2-9-16
Attachment D-11	Wellbore Diagram – Monument Butte Federal #1-13-9-16
Attachment E-1	Water Analysis of the Primary Fluid to be Injected
Attachment E-2	Water Analysis of the Secondary Fluid to be Injected
Attachment E-3	Analysis of Formation Water from the Mon Butte Federal #5-1-9-16
Attachment E-4	Analysis of the Compatibility of the Injected and Formation Fluids
Attachment F	Fracture Gradient Calculations with Proposed Maximum Injection Pressure
Attachment F-1	Completion Report with perms dated 11-9-95; 11-11-95; 11-14-95
Attachment G	Work Procedure for Proposed Plugging and Abandonment
Attachment G-1	Wellbore Diagram of Proposed Plugged Well

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## **WORK PROCEDURE FOR INJECTION CONVERSION**

- 1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.**
- 2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.**
- 3. Test casing and packer.**
- 4. Rig down, move out.**

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OIL, GAS AND MINING**



Put on production: 11/20/95  
GL: 5428'

## Monument Butte Federal #5-1

Proposed Injection  
Wellbore Diagram

Initial Production: 135 BOPD,  
120 MCFD, 55 BWPD

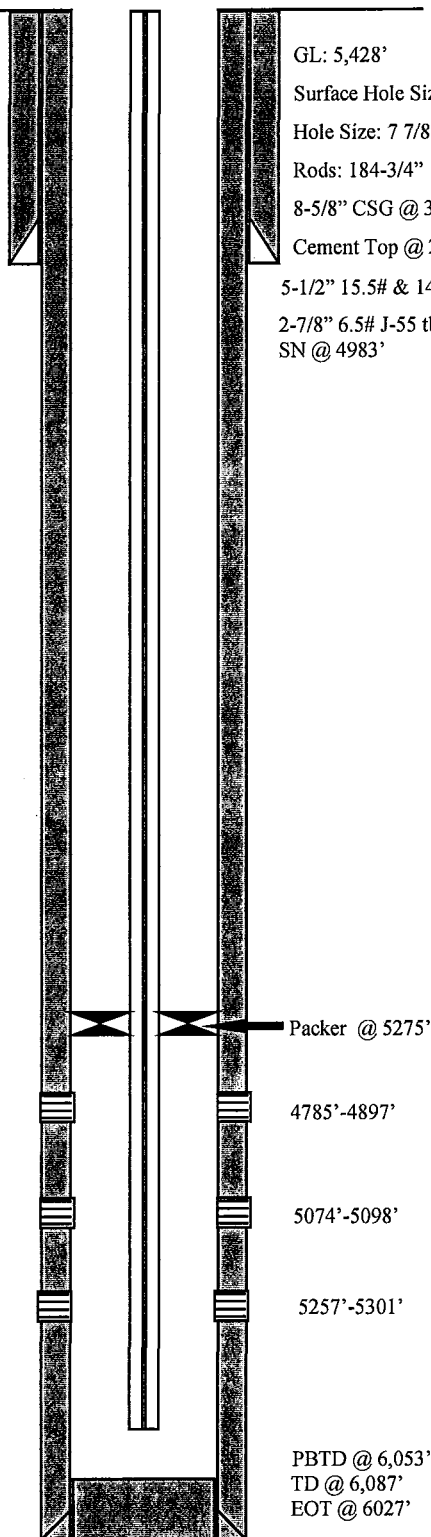
### Well History:

7-24-95	Spud Well
11-10-95	Perf: 5,257'-5,293'
11-11-95	Frac A zone as follows: Totals 27,365 gals Boragel 86,800# 20/40 sd
11-12-95	Perf: 5,074'-5,085', 5,090'-5,093', 5,095'-5,098'
11-14-95	Frac B-2 zone as follows: Totals 24,797 gals Boragel 89,500# 20/40 sd Avg TP 1,800 @ 35 BPM ISIP 2,036, after 5 min 1,905
11-15-95	Perf: 4,785'-4,794', 4,830'-4,839', 4,867'-4,874', 4,891'-4,897'
11-16-95	Frac D-1, D-2 and D-3 zones as follows: Totals 32,503 bbls Broagel 110,000# 20/40 sd

GL: 5,428'  
Surface Hole Size: 12 1/4"  
Hole Size: 7 7/8"  
Rods: 184-3/4"  
8-5/8" CSG @ 305'  
Cement Top @ 280' *2986*  
5-1/2" 15.5# & 14# J-55 @ 6,076'  
2-7/8" 6.5# J-55 tbg @ 5,091  
SN @ 4983'

### Perforation Record:

11/14/95	4785'-4897'	4 SPF	124 shots total
11/12/95	5074'-5098'	4 SPF	60 shots total
11/10/95	5257'-5301'	4 SPF	44 shots total



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DIVISION OF  
OIL, GAS AND MINING



Inland Resources Inc.

Monument Butte Federal #5-1

662 FWL 1982 FNL

SWNW Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-31507; Lease #UTU-72103

10/27/00



**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

1. **Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**

2. **A request for agency action for authority for the injection of gas, liquefied petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

- 2.1 **The name and address of the operator of the project.**

Inland Production Company  
410 17<sup>th</sup> Street, Suite 700  
Denver, Colorado 80202

- 2.2 **A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A-1.

- 2.3 **A full description of the particular operation for approval is requested.**

Approval is requested to convert the Monument Butte Federal #5-1-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

- 2.4 **A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

- 2.5 **The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. In the Monument Butte Federal #5-1-9-16 well, the proposed injection zone is from 4785' to 5301'. The confining strata directly above and below the injection zones are the top of the Douglas Creek formation and the Basal Carbonate. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

- 2.6 **A copy of a log of a representative well completed in the pool.**

The referenced log for the Monument Butte Federal #5-1-9-16 is on file with the Utah Division of Oil, Gas and Mining.

**RECEIVED**

**DEC 13 2000**

**DIVISION OF  
OIL, GAS AND MINING**



**2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water from the Monument Butte Federal #5-1-9-16. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

**2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

**2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

**2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Inland Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

**4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (#UTU-72103) in the Monument Butte (Green River) Field, and this request is for administrative approval.

**RECEIVED**

DEC 13 2000

DIVISION OF  
OIL, GAS AND MINING



**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

1. **Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
2. **The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 **A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and A-1.

- 2.2 **Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 **A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 **Copies of logs already on file with the Division should be referenced, but need not be re-filed.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 **A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24#, J-55 surface casing run to 305' KB, and 5-1/2" 15.5# J-55 production casing run from surface to 6076' KB. A casing integrity test will be conducted at the time of conversion.

See Attached Work Procedure for Injection Conversion.

- 2.6 **A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water from the Johnson Water District supply line. The secondary type of fluid to be used for injection will be culinary water from the Johnson Water District commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

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**2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachments E-1, E-2, E-3 and E-4 (Water Analyses).

**2.8 The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1500 psig and the maximum injection pressure will not exceed 1572 psig.

**2.9 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Monument Butte Federal #5-1-9-16, for proposed zones (4785'-5301') calculates at 0.764 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1572 psig. See Attachment F.

**2.10 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Monument Butte Federal #5-1-9-16, the injection zone (4785'-5301') is in the Douglas Creek member of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The Douglas Creek member is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-25' within the Monument Butte area. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

**2.11 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments D-1 through D-11.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One-way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

**2.12 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

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**2.13 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Inland Production Company will supply any requested information to the Board or Division.

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**T9S, R16E, S.L.B.&M.**

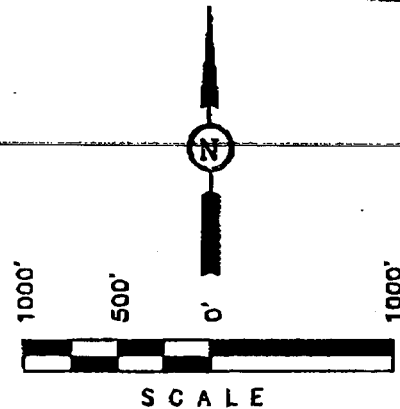
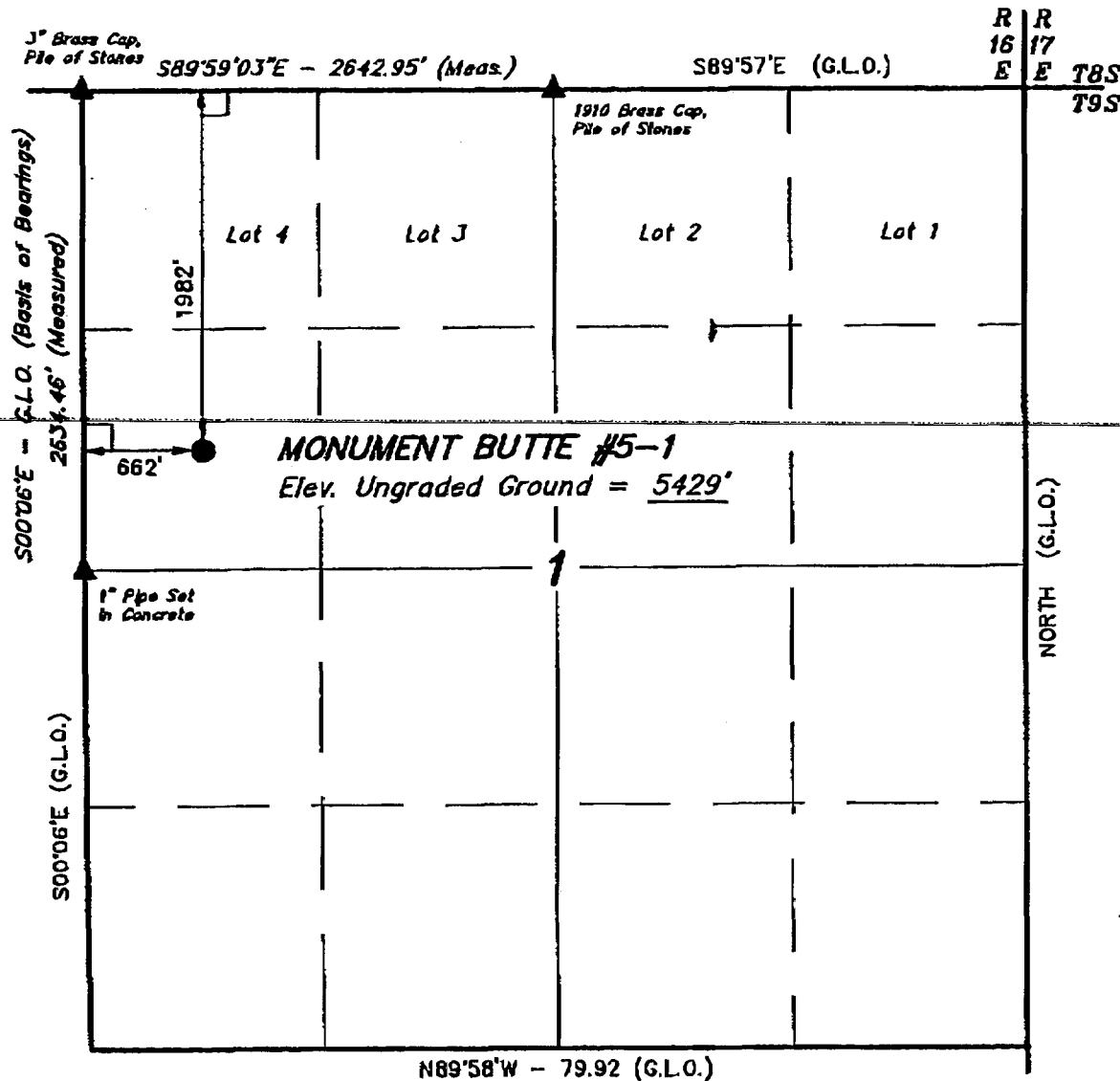
**LOMAX EXPLORATION CO.**

Well location, MONUMENT BUTTE #5-1 located as shown in the SE 1/4 NW 1/4 of Section 1, T9S, R16E, S.L.B.&M. Duchesne County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION 1, T9S, R16E, S.L.B.&M. TAKEN FROM THE 1:250,000 QUADRANGLE, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5482 FEET.

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**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

SCALE 1" = 1000'	DATE SURVEYED: 1-27-95	DATE DRAWN: 2-3-95
PARTY J.K. N.H. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE LOMAX EXPLORATION CO	

Attachment A-1

Received Time Nov. 8, 12:24PM



# Inland Production Company Site Facility Diagram

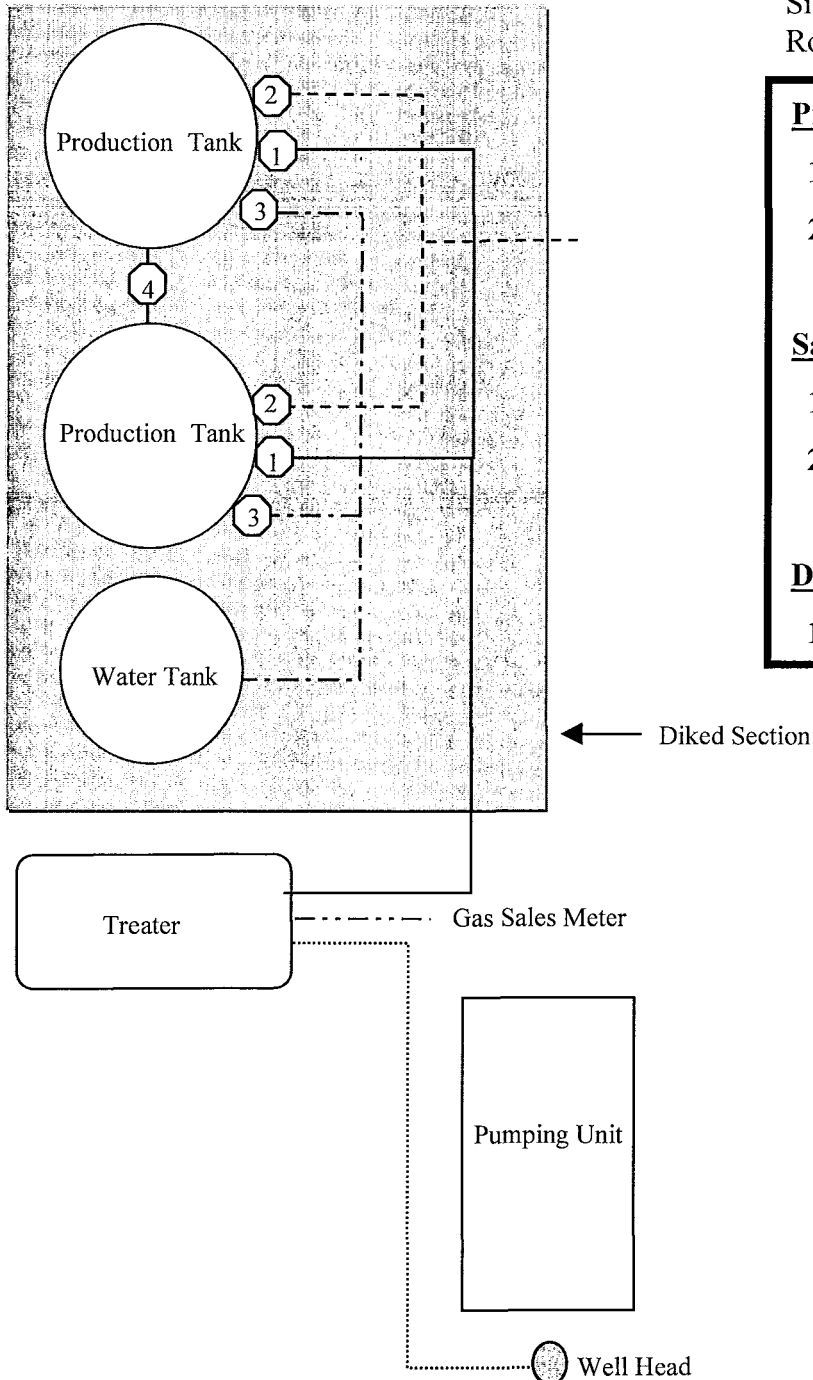
Monument Butte 5-1

SW/NW Sec. 1, T9S, 16E

Duchesne County

Sept. 17, 1998

Site Security Plan is held at the Roosevelt Office,  
Roosevelt Utah



## Production Phase:

- 1) Valves 1, and 3 sealed closed
- 2) Valves 2 and 4 sealed open

## Sales Phase:

- 1) Valves 2, 3, and 4 sealed closed
- 2) Valves 1 open

## Draining Phase:

- 1) Valve 3 open

Attachment A-2

## Legend

Emulsion Line	.....
Load Line	-----
Water Line	-----
Oil Line	—————
Gas Sales	-----

09.17.98  
BY: J. L. W.  
ON, GAS AND WATER



EXHIBIT B  
Page 1

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DIVISION OF  
OIL, GAS AND MINING

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1	<u>Township 9 South, Range 16 East</u> Section 2: All	ML-21839 HBP	Inland Production Company Key Production Co. Inc.	(Surface Rights) State of Utah
2	<u>Township 9 South, Range 16 East</u> Section 1: Lot 3	U-72104 HBP	Inland Production Company Key Production Company Jack Warren King Oil & Gas of Texas, LTD.	(Surface Rights) USA
3	<u>Township 9 South, Range 16 East</u> Section 1: Lot 4, S/2NW/4	U-72103 HBP	Inland Production Company Edwards & Davis energy Inc. Arden A. Anderson R. Lee Tucker	(Surface Rights) USA
4	<u>Township 9 South, Range 16 East</u> Section 1: SW/4	U-18399 HBP	Inland Production Company	(Surface Rights) USA
5	<u>Township 9 South, Range 16 East</u> Section 1: Lots 1,2, SW/4NE/4	U-33992 HBP	Inland Production Company R. Lee Tucker Edwards & Davis Energy Inc. King Oil & Gas of Texas, Inc	(Surface Rights) USA



EXHIBIT B  
Page 2

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DIVISION OF  
OIL, GAS AND MINING

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
6	<u>Township 8 South, Range 16 East</u> Section 34: NE/4, N/2SE/4, SE/4SE/4 Section 35: All	U-16535 HBP	Inland Production Company Marian Brennan Raymond H. Brennan Davis Brothers Davis Resources James Fischgrund International Drilling Services Thomas I. Jackson King Oil & Gas of Texas, LTD. Texas General Offshore Jack Warren	(Surface Rights) USA
7	<u>Township 9 South, Range 16 East</u> Section 1: N/2SE/4, SW/4SE/4	U-52013 HBP	Inland Production Company	(Surface Rights) USA
8	<u>Township 8 South, Range 16 East</u> Section 36: All	ML-22061 HBP	Inland Production Company Key Production Company James & Beverly Fischgrund Raymond H. Brennan Marian Brennan Estate of Raymond Chorney	(Surface Rights) State of Utah

5-1-9-16inj



ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Monument Butte Federal #5-1-9-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

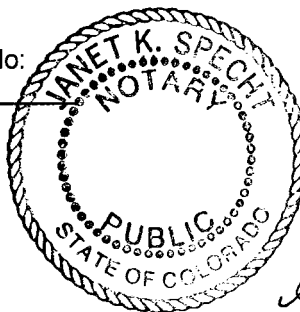
Signed: \_\_\_\_\_

*Bill Pennington*  
Inland Production Company  
Bill Pennington  
Chief Executive Officer

Sworn to and subscribed before me this 13 day of November, 2000.

Notary Public in and for the State of Colorado: \_\_\_\_\_

*Janet K. Specht*



*exp. 7/16/01*

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OIL, GAS AND MINING



## Monument Butte Federal #5-1

Wellbore Diagram

Initial Production: 135 BOPD,  
120 MCFD, 55 BWPD

## Well History:

7-24-95 Spud Well

11-10-95 Perf: 5,257'-5,293'

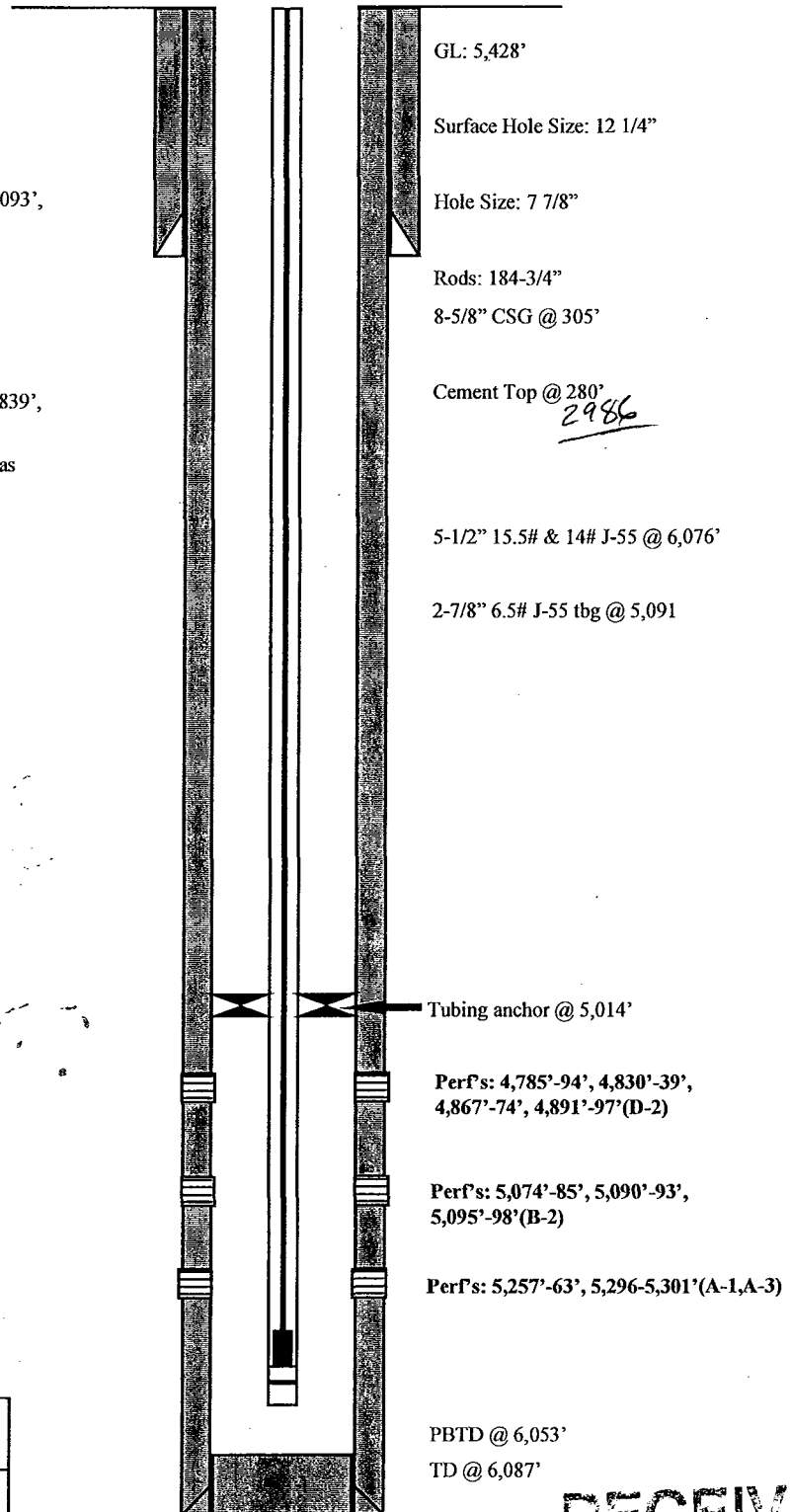
11-11-95 Frac A zone as follows:  
Totals 27,365 gals Boragel  
86,800# 20/40 sd

11-12-95 Perf: 5,074'-5,085', 5,090'-5,093',  
5,095'-5,098'

11-14-95 Frac B-2 zone as follows:  
Totals 24,797 gals Boragel  
89,500# 20/40 sd  
Avg TP 1,800 @ 35 BPM  
ISIP 2,036, after 5 min 1,905

11-15-95 Perf: 4,785'-4,794', 4,830'-4,839',  
4,867'-4,874', 4,891'-4,897'

11-16-95 Frac D-1, D-2 and D-3 zones as follows:  
Totals 32,503 bbls Broagel  
110,000# 20/40 sd



Inland Resources Inc.

Monument Butte Federal #5-1

662 FWL 1982 FNL

SWNW Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-31507; Lease #U-72103

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## Federal #1-1

Wellbore Diagram

Initial Production: 69 BOPD,  
0 MCFD, 0 BWPDWell History:

4-30-81	Spud Well
7-81	Perf 5,316'-5,319', 5,335'-5,338' Frac A-3 zone as follows: 1000 gal 15 % HCL, 12,780 gal gelled 2% KCL wtr, 14,000# 20/40 sd, 840# 10/20 sd, ATP 2300, AIR 20BPM
7-81	Perf 5,094'-5,112' Frac B-2 zone as follows: 3000 gal 15% HCL, 18,000gal gelled diesel, 25,000# 20/40 sd, 9000 # 10/20 sd, ATP 3150, AIR 20 BPM
10-82	Perf 4,956'-4,973' Frac C-SD zone as follows: 35,500gal gelled 3% KCL wtr, 85,000# 20/40 sd, ATP 2400, AIR 30 BPM

GL: 5,387'

Surface Hole Size: 12 1/4"

Hole Size: 7 7/8"

Rods: 205-3/4"

8-5/8" Surface casing @ 239'

Cement Top @ 3,247'

5-1/2" 15.5# J-55 csg @ 5,504'

Tubing Anchor @ 4,937'

2-7/8" 6.5# J-55 tubing @ 5,357'

Perf's: 4,956'-64', 4,971-73'(C-SD)

Perf's: 5,094'-5,102', 5,108'-12'(B-2)

Perf's: 5,316'-19', 5,335'-38'(A-3)

SN @ 5,324' 1-1/4" pump

PBTD @ 5461'

TD @ 5,504'

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Inland Resources Inc.

Federal #1-1

684 FNL 1930 FWL

NENW Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-30571; Lease #U-72104



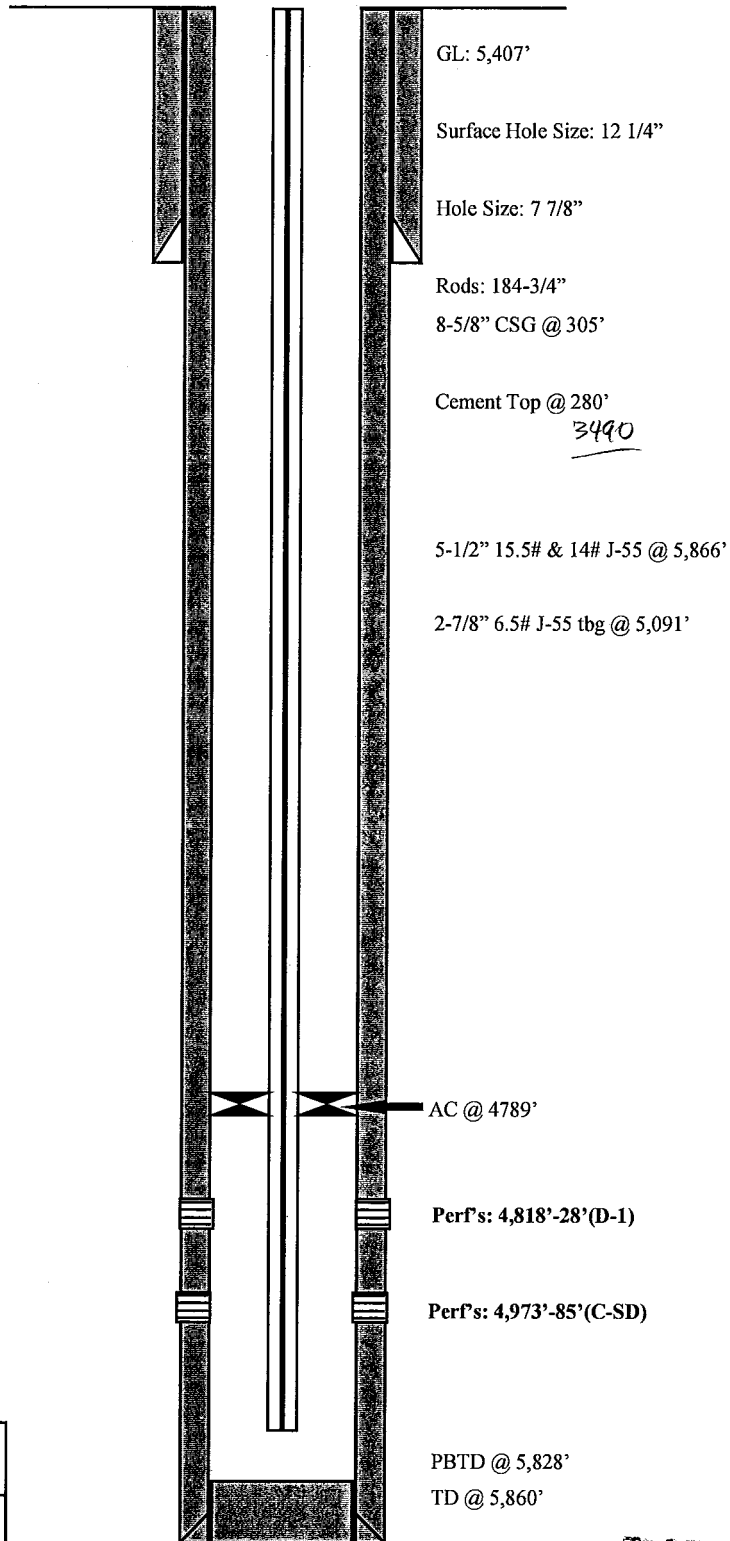
## Monument Butte Federal #4-1

## Well History:

9-8-95 Spud Well  
 11-9-95 Perf: 4,973'-4,985'  
 Frac C zone as follows:  
 Totals 15,520 gals Boragel  
 38,000# 16/30 sd  
 11-13-95 Perf: 4,818'-4,828'  
 Frac D-1 zone as follows:  
 Totals 20,112 gals Boragel  
 54,900# 20/40 sd

## Wellbore Diagram

Initial Production: 41 BOPD,  
 44 MCFD, 7 BWPD



Inland Resources Inc.

Monument Butte Federal #4-1

608 FWL 799 FNL

NWNW Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-31545; Lease #U-72103

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## Monument Butte Federal #6-1

Wellbore Diagram

Initial Production: 26 BOPD,  
32 MCFD, 7 BWPD

## Well History:

5/31/95 Spud Well

6/18/96 Perf: 5268'-5273'w/4 JSPF

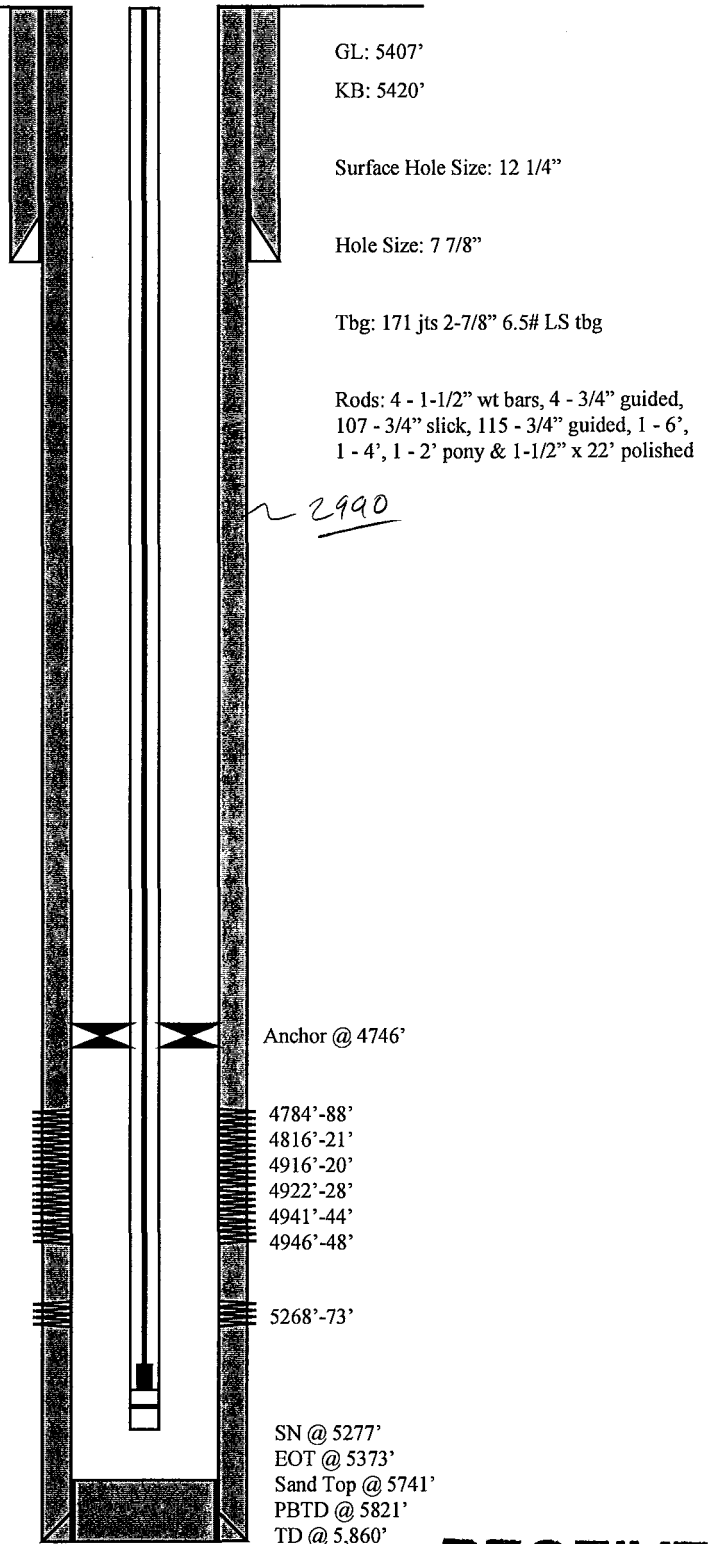
6/19/96 Frac A-1 sand as follows:  
52,200# of 20/40 sand in 339 bbls of Boragel. Breakdown @ 3350 psi, treated @ avg rate 16.4 bpm @ avg press 2300 psi. ISIP-2446 psi, 5-min 2333 psi. Start flowback after 5 min on 16/64" ck. Flowed for 2 hrs and died.

6/20/96 Perf: 4916'-4920', 4922'-4928', 4941'-4944', 4946'-4948', 4816'-4821', 4784'-4788', w/4 JSPF

6/21/96 Frac D-1, D-2 & D-3 sands as follows:  
75,600# of 20/40 sand in 411 bbls of Boragel. Breakdown @ 1147 psi treated @ avg rate 24.8 bpm w/avg press 1600 psi. ISIP-2585 psi, 5-min 2210 psi. Flowback after 5 min on a 16/64" ck. Flowed for 1-1/2 hrs and died.

6/25/96 Put on Production

1/17/97 WO - Tubing Leak



Inland Resources Inc.

Monument Butte Federal #6-1

1980 FNL 1980 FWL

SENW Section1-T9S-R16E

Duchesne Co, Utah

API #43-013-31506; Lease #U-72103

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10/6/00  
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OIL, GAS AND MINING



Spud Date: 11/17/82

Put on Production: 12/24/82

GL: 5472' KB: 5488'

## Monument Butte Federal #1-14

## Wellbore Diagram

Initial Production: 162 STBOPD,  
100 MCFD, 0 STBWPDSURFACE CASING

STRING: 1  
 SIZE: 8 5/8"  
 GRADE: J-55  
 WEIGHT: 24 lbs  
 LENGTH: 8 jts @ 323'  
 HOLE SIZE: 12 1/4"  
 DEPTH LANDED: 339' KB  
 CEMENT DATA: 225 sx, Class G

PRODUCTION CASING

STRING: 1  
 SIZE: 5 1/2"  
 GRADE: J-55  
 WEIGHT: 15.5 lbs  
 LENGTH: 151 jts @ 5574'  
 HOLE SIZE: 7 7/8"  
 DEPTH LANDED: 5590' KB  
 CEMENT DATA: 325 sx, BJ Lite &  
 500 sx, Class G  
 CEMENT TOP AT: 1465' KB from CBL.

1465

TUBING RECORD

SIZE/GRADE/WT.: 2 7/8", J-55, 6.5 lbs  
 NO. OF JOINTS: 135 jnts @ 4379'  
 TUBING ANCHOR: 2 7/8" x 2.35' Baker  
 NO. OF JOINTS: 27 jnts @ 864'  
 SEATING NIPPLE: 2 7/8" x 1.1' (ID @ 2.25")  
 PERF. SUB: 2 7/8" x 3'  
 MUD ANCHOR: 2 7/8" x 32.5' w/NC  
 TOTAL STRING LENGTH: 5282'  
 SN LANDED AT: 5262' KB  
 Note: Set TA w/24" stretch.

SUCKER RODS

1 - 22' x 1 1/4" Polished Rod (SM End)  
 1 - 3/4" x 6' Pony  
 209 - 3/4" x 25' Rods

PUMP SIZE: 2 1/2" x 1 1/2" x 16' RWAC  
 w/ringed PA plunger.  
 Trico Pump No. 1029

STROKE LENGTH: 86"  
 PUMP SPEED: 4.5 SPM  
 PUMPING UNIT SIZE: Lufkin LM-228D-213-86T  
 SN B129379A 525034  
 ENGINE SIZE: Ajax E-42, SN 51384

FRAC JOB

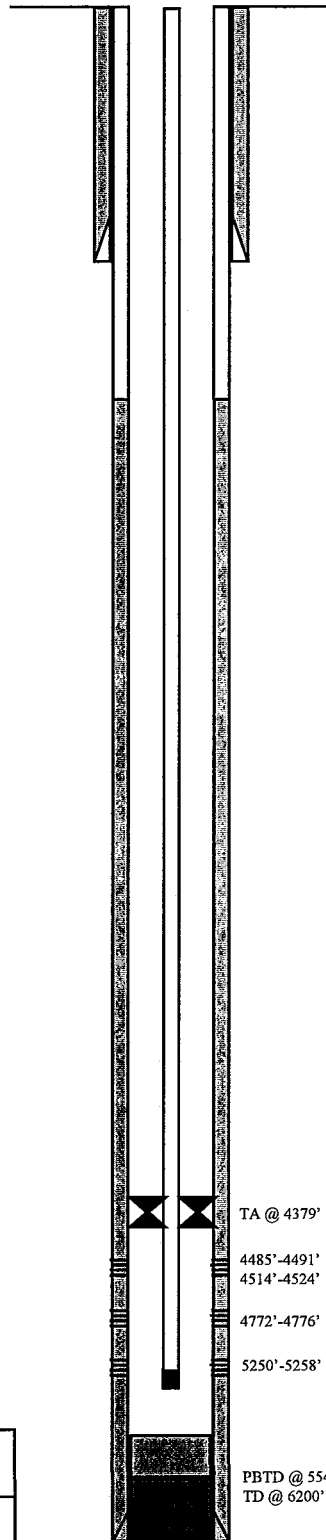
4485'- 4524', Frac w/Halliburton on 12/21/82.  
 28000 gal X-linked gel w/137000 lbs 20-40 mesh  
 sand. Avg 35 BPM @ 2305 psig, max @ 2470 psig,  
 ISIP @ 2140 psig, 5 min @ 2030 psig, 10 min  
 @ 1960 psig, 15 min @ 1920 psig.

4772'- 4776', Frac w/Halliburton on 12/16/82.  
 10500 gal X-linked gel w/45000 lbs 20-40 mesh  
 sand. Avg 25 BPM @ 2183 psig, max @ 2400 psig,  
 ISIP @ 1950 psig, 5 min @ 1820 psig, 10 min  
 @ 1750 psig, 15 min @ 1740 psig.

5250'- 5258', Frac w/Halliburton on 12/13/82.  
 19000 gal X-linked gel w/50000 lbs 20-40 mesh  
 sand. Avg 20 BPM @ 1730 psig, max @ 1840 psig,  
 15 min SI @ 1070 psig.

PERFORATION RECORD

4485'- 4491' (6') 1 SPF YELLOW4  
 4514'- 4524' (10') 1 SPF YELLOW5  
 4772'- 4776' (4') 4 SPF RED1  
 5250'- 5258' (8') 2 SPF GREEN4



Inland Resources Inc.

Monument Butte Federal #1-14

820 FSL 820 FWL

SWSW Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-310703; Lease #U-18399

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Spud Date: 3/19/82

Put on Projection: 12/6/82

GL: 5432' KB: 5442'

## Monument Butte Federal #1-23

## Wellbore Diagram

Initial Production: 156 STBOPD,  
100 MCFD, 0 STBWPD

## SURFACE CASING

STRING: 1  
 SIZE: 8 5/8"  
 GRADE: J-55  
 WEIGHT: 24 lbs  
 LENGTH: 6 jts @ 246'  
 HOLE SIZE: 12 1/4"  
 DEPTH LANDED: 256'KB  
 CEMENT DATA: 150 sx, Class G  
 Cement to surface

## PRODUCTION CASING

STRING:	1	2
SIZE:	5 1/2"	5 1/2"
GRADE:	J-55	J-55
WEIGHT:	15.5 lbs	14 lbs
LENGTH:	633'	5557'
HOLE SIZE:	7 7/8"	
DEPTH LANDED:	6200'KB	
CEMENT DATA:	365 sx, BJ Lite & 625 sx, Class G	
CEMENT TOP AT:	1890' from CBL	

1890

## TUBING RECORD

SIZE/GRADE/WT.: 2 7/8", J-55, 6.5 lbs.  
 NO. OF JOINTS: 144 jts @ 4748'  
 TUBING ANCHOR: 2 7/8" x 5 1/2" x 4'  
 NO. OF JOINTS: 16 jts @ 528'  
 SEATING NIPPLE: 2 7/8" x 1.1'  
 PERF. SUB: 2 7/8" x 3'  
 MUD ANCHOR: 2 7/8" x 33'  
 TOTAL STRING LENGTH: 5317'  
 SN LANDED AT: 5291' KB

## SUCKER RODS

1 - 1 1/2" x 22' Polish Rod  
 2 - 7/8" x 4' Pony  
 2 - 7/8" x 6' Pony  
 202 - 3/4" x 25' Rods  
 7 - 1 1/2" x 25' Weighted Rods

PUMP SIZE: 2 1/2" x 1 1/2" x 16' BHDP  
 (CMI 160 serviced 10-15-92)

STROKE LENGTH:  
 PUMP SPEED, SPM:  
 PUMPING UNIT SIZE:

LOGS: Dual Induction-SFL, Cement Bond Log,  
 Compensated Neutron-Formation Density Log.

## FRAC JOB

4771'- 4950', Frac w/Halliburton on 11/22/82.  
 22000 gal X-linked gel w/92000 lbs 20-40 mesh  
 sand. Avg 30 BPM @ 2348 psig, max @ 2660 psig,  
 ISIP @ 1940 psig, 5 min @ 1800 psig, 10 min  
 @ 1780 psig, 15 min @ 1750 psig.  
 5058'- 5281', Frac w/Halliburton on 11/14/82.  
 21000 gal X-linked gel w/84000 lbs 20-40 mesh  
 sand. Avg 30 BPM @ 2692 psig, max @ 3100 psig,  
 ISIP @ 2150 psig, 5 min @ 1970 psig, 10 min  
 @ 1950 psig, 15 min @ 1920 psig.

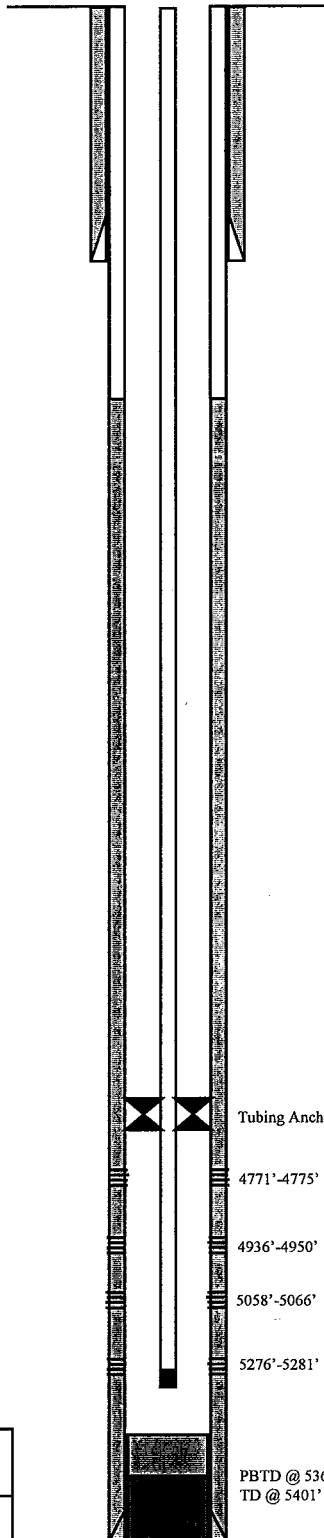
## ACID JOB

5276'- 5281' 500 gal 7.5% HCl Acid.

## PERFORATION RECORD

4771'- 4775' (4') 1 SPF  
 4936'- 4950' (8') 1 SPF\*  
 5058'- 5066' (8') 1 SPF  
 5276'- 5281' (5') 1 SPF

\*Perf @ 4936'- 4944' 9 holes on Petro-log.  
 Perf @ 4942'- 4950' on Schlumberger Log.  
 Reshoot top 6' to Schlumberger log.



Tubing Anchor @ 4748'

4771'-4775'

4936'-4950'

5058'-5066'

5276'-5281'

PBTD @ 5365'  
 TD @ 5401'



Inland Resources Inc.

Monument Butte Federal #1-23

1980 FSL 1980 FWL

NWSE Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-30646; Lease #U-18399

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Spud Date: 8/24/94

Put on Production: 9/23/94

GL: 5397' KB: 5407'

## Balcron Monument Federal #32-1J

## Wellbore Diagram

Initial Production: 52 STBOPD,  
NM MCFD, 0 STBOPD

## SURFACE CASING

STRING: 1  
 SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 353.65'  
 HOLE SIZE: 12-1/4"  
 DEPTH LANDED: 362' KB  
 CEMENT DATA: By Western w/220 sxs Class "G" w/  
 2% CCL & 1/4#/sx CelloFlake.

## PRODUCTION CASING

STRING: 1  
 SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 5780.24'  
 HOLE SIZE: 7-7/8"  
 DEPTH LANDED: 5789'24' KB  
 CEMENT DATA: By Western w/261 sxs Super "G" w/  
 2#/sx HiSeal, & 1/4#/sx Celloflake.  
 Tail w/290 sxs 50-50 POZ w/2% gel  
 & 1/4#/sx Celloflake & 2#/sx Hi-Seal2.

CEMENT TOP AT: 1882' KB  
 1932

## Tubing Record

SIZE, WEIGHT, GRADE: 2-7/8", 6.5#, J-55  
 NO. OF JOINTS: 151 @ 4743.38'  
 TUBING ANCHOR: 2-7/8" X 5-1/2" X 2.35'  
 NO. OF JOINTS: 18 @ 562.17'  
 SEATING NIPPLE: 2-7/8" X 1.1' (1.75" ID)  
 PERF. SUB: 2-7/8" x 4'  
 NO. OF JOINTS: 1 @ 30.66'  
 TOTAL STRING LENGTH: 5343.86' (10' KB)  
 SN LANDED AT: 5319.00' KB

## Sucker Rods

1 - 1-1/4" x 22' Polish Rod  
 1 - 8", 1 - 6", 1 - 2' x 3/4" ponies  
 211 - 3/4" x 25' D-61 Slick Rods  
 1 - 8' x 1/2" pony rod.

PUMP SIZE: 2-1/2"x1-1/2"x16' RWAC  
 with SM plunger  
 STROKE LENGTH: 74"  
 PUMP SPEED, SPM: 3.5  
 PUMPING UNIT SIZE: 160-200-74  
 S/N: 507-S4202  
 ENGINE SIZE: 7-1/4 X 8 EA-30  
 S/N: 74511  
 TANK SIZE: Two @ 12' x 20' 400-bbl Vertical  
 #1 S/N: 233-T2  
 #2 S/N: 1166-T2

## FRAC JOB

5276' - 5288' KB (4 SPF): 9-10-94 by Western w/2394 gals  
 2% KCL water. ATP 2600 psi,  
 max 5000 psi. ATR 6.2 bpm, max  
 6.3 bpm. ISIP 1300 psi.

4768' - 4788' KB (3 shots): 9-14-94 by Western w/1,974 gals  
 2% KCL wtr. ATP 3300 psi, max 5000 psi.  
 ATR 4 bpm, max 4 bpm. ISIP 1600 psi.  
 Pump 2 balls/bbl.

4938' - 4946' KB (10 shots): 9-14-94 by Western w/1,806 gals 2% KCL wtr.  
 ATP 3100 psi, max 4900 psi. ATR 4.2 bpm,  
 max 7.2 bpm. ISIP 680 psi. Pump 2 balls/bbl.

5276' - 5288' KB (4 SPF): 9-10-94 by Western w/17,640# 20/40  
 mesh sand & 20,540 # 16/30 mesh sand  
 w/14-784 gals 2% KCL gelled wtr. ATP  
 2550 psi, max 2870 psi. ATR 30.7 bpm,  
 max 31.2 bpm.  
 ATP 2550 psi, max 2870 psi, ATR/ISIP  
 2250 psi, 5 min 2040 psi, 10 min 1870  
 psi, 15 min 1830 psi

4768' - 4788' KB (3 shots) &  
 4938' - 4946' KB (10 shots): 9-14-94 by Western w/26,800# 16/30 mesh sand  
 w/2,096 gals  
 2% KCL gelled wtr. ATP 3000 psi, max 3300 psi.  
 ATR 29.5 bpm, max 30.4 bpm. ISIP 2200 psi, 5  
 min 1340 psi,  
 10 min 1220 psi, 14 min 1140 psi, 30 min 790 psi.  
 30 min forced closure.

## PERFORATION RECORD

Tubing Anchor @ 4753' KB

5276' - 5288' KB (4 SPF)  
 4938' - 4946' KB (10 shots)  
 4786' - 4788' KB (3 shots)

4786' - 4788'

4938' - 4946'

5276' - 5288'

SN @ 5319' KB  
 EOT @ 5354' KB  
 PBTD @ 5734' KB  
 TD @ 5789' KB

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OIL, GAS AND MINING

Inland Resources Inc.

Balcron Monument Federal #32-1J

2143 FNL 1987 FEL

SWNE Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-31414; Lease #U-33992

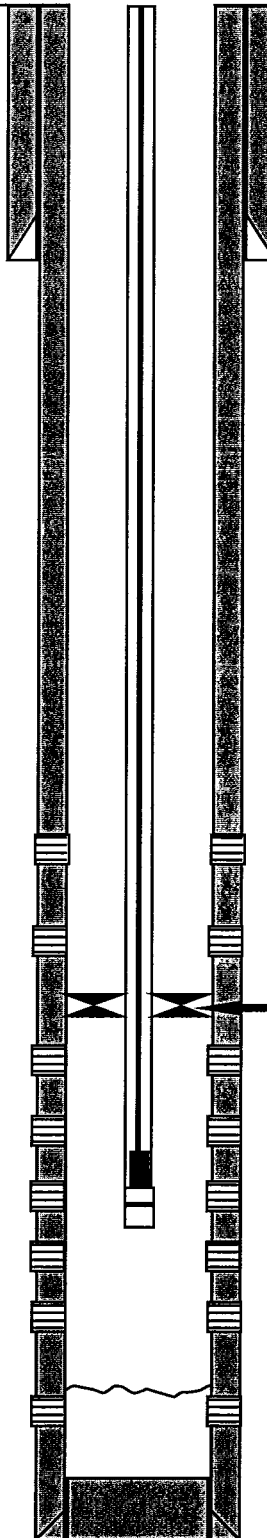


## Monument Butte State #1-2

Wellbore Diagram

## Well History:

8-25-81	Spud Well
9-29-81	Perf: 5328, 5326, 5157, 5116, 5114, 5113, 5029, 5027, 4998, 4987, 4826, 4825, 4824, 4781, 4779, 4662, 4661, 4660, 4652, 4651
9-30-81	Frac A-3, B-2, C-SD, D-1 and stray sd as follows: 6000 gal 7-1/2% HCL w/35 ball 7000 gal gelled diesel pad 3500 gal 1 ppg 20/40 sd 3500 gal 2 ppg 20/40 sd 3500 gal 3 ppg 20/40 sd 3500 gal 4 ppg 20/40 sd 3500 gal 2 ppg 10/20 sd 3500 gal 3 ppg 10/20 sd Totals 34,000 gal, 35,000# 20/40 sd, 17,500# 10/20 sd Breakdown @ 3000# ISI{ 2150#, after 10 min 1450#
10-4-81	Perf: 4,534'-4,544'
10-6-81	Frac PB-10 zone as follows: Frac well with gelled diesel 3000 gal 7-1/2% HCL 2500 gal 1 ppg 20/40 sd 2500 gal 2 ppg 20/40 sd 2500 gal 3 ppg 20/40 sd 2500 gal 4 ppg 20/40 sd 2000 gal 2 ppg 10/20 sd Total 15,000 gal, 25,000# 20/40 sd, 2,000# 10/20 sd Avg rate 12 BBLS/min @ 3200# ISIP 2600, after 5 min 2500#
2-21-85	Perf: 4,317'-4,334', 4,342'-4,350'
2-22-85	Frac GB-6 zone as follows: 12000 gal pad 2000 gal 2 ppg 20/40 sd 3000 gal 4 ppg 20/40 sd 4000 gal 5 ppg 20/40 sd 6000 gal 6 ppg 20/40 sd 6000 gal 8 ppg 20/40 sd Total 33,000 gal gel, 118,000# 20/40 sd



GL: 5,457'  
KB: 5470' (12' KB)  
Surface Hole Size: 12 1/4"  
Hole Size: 7 7/8"  
8-5/8" 23# csg @ 300'  
Rods: 1-1/4" x 22' polished rod, 1 - 2'x3/4" pony, 58 - 3/4" scraped, 123 - 3/4" plain, 20 - 3/4" scraped, 3 - 1-1/2" weight rods.  
2-1/2" x 1-1/2" x 15' RHAC pump  
50" SL @ 6 SPM  
5-12" 15.5# & 14# J-55 @ 5,461'  
*TDC 3282*  
2-7/8" 6.5# J-55 tbg  
141 jts tbg @ 4610.74'  
TA 2.80' @ 4622.74'  
16 jts tbg @ 518.99'  
SN 1.10' @ 5144.53'  
1 jt tbg @ 32.70'  
2-7/8" NC .45' @ 5178.78' KB  
Perf's: 4,317'-34' (10 holes), 4,342'-50' (5 holes) (GB-6)  
Perf's: 4,534'-44' 2 SPF/20 holes (PB-10)  
Tubing anchor @ 4,623'  
Perf's: 4,651'-52', 4,660'-62' (Stray)  
Perf's: 4,779'-81' (D-1)  
Perf's: 4,824'-26' (C-SD)  
Perf's: 4,986'-88', 5,027'-29' (Stray)  
Perf's: 5,113'-16', 5157' (B-2)  
Perf's: 5,326'-28' (A-3)  
SN @ 5,145'  
EOT @ 5,179'  
Sand Top @ 5157'  
PBTD @ 5,419'  
TD @ 5,461'



Inland Resources Inc.

## Monument Butte State #1-2

1605 FNL 1908 FEL

SWNE Section 2-T9S-R16E

Duchesne Co, Utah

API #43-013-30596; Lease #U-21839

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## Monument Butte State #8-2

Wellbore Diagram

Initial Production: 149 BOPD,  
105 MCFD, 2 BWPD

## Well History:

10-8-95 Spud Well

11-22-95 Perf: 5,316'-5,332'

11-23-95 Frac A-3 zone as follows:  
Totals 22,557 gals Boragel  
70,700# 20/40 sd  
Avg TP 2,400 @ 31.5 BPM  
ISIP 2,280, after 5 min 2,070

11-26-95 Perf: 4,947'-4,955'

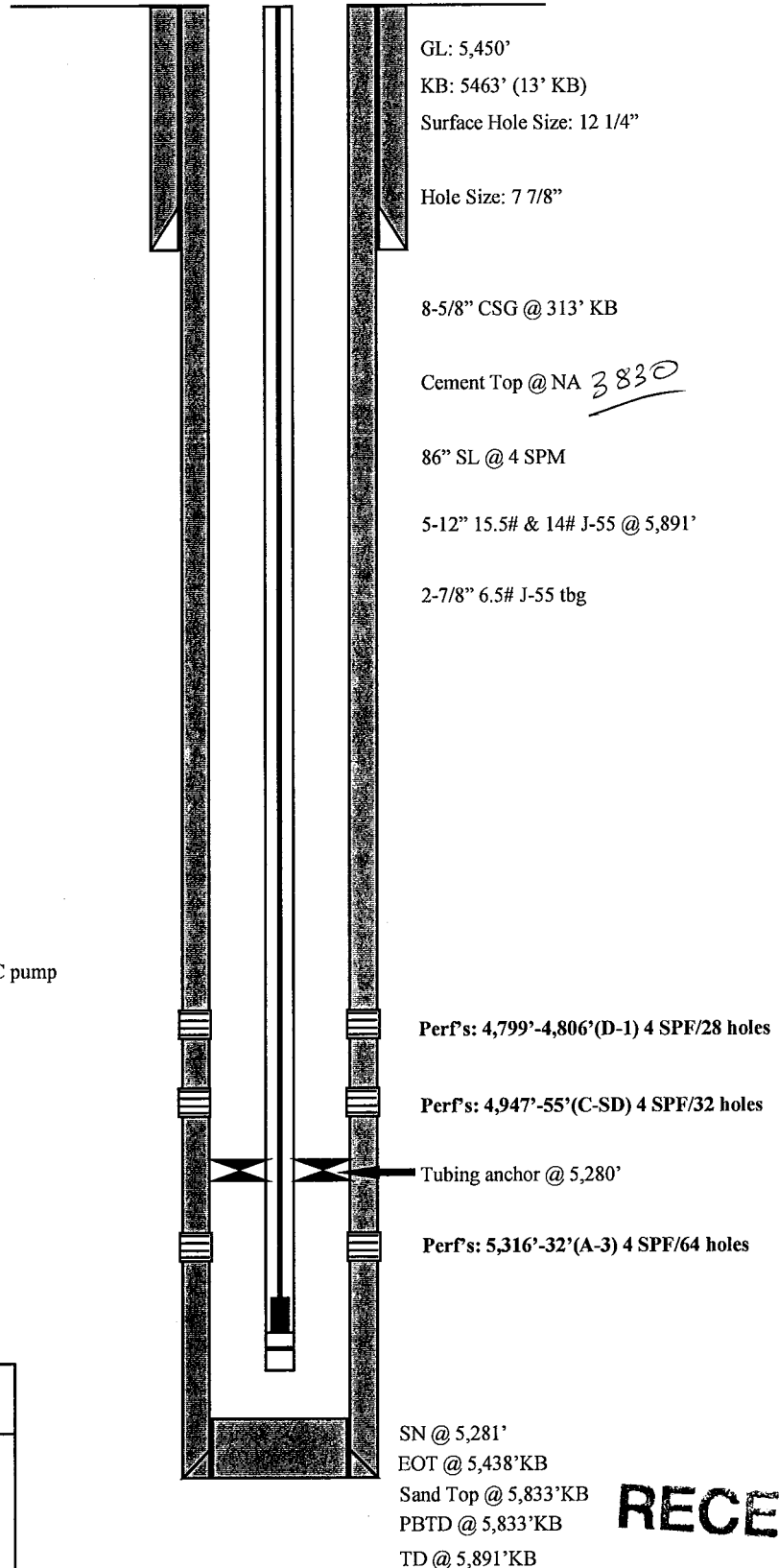
11-28-95 Frac C zone as follows:  
Totals 18,635 gals Boragel  
47,000# 20/40 sd  
Avg TP 2,200 @ 27 BPM  
ISIP 2,130, after 5 min 2,082

11-29-95 Perf: 4,799'-4,806'

11-30-95 Frac D-1 zone as follows:  
Totals 18,760 gals Boragel  
48,200# 16/30 sd  
Avg TP 2,200 @ 25 BPM  
ISIP 2,255, after 5 min 2,180

**Tubing Detail:** 2-7/8" 6.5# J-55 tbg  
165 jts. Tbg. (5268.27')  
SN 1.10' @ 5281.27' KB  
1 jt. Tbg (27.26')  
TA 2.80' @ 5309.63' KB  
4 jts tbg (124.82')  
2-7/8" NC (.47')  
EOT @ 5437.72' KB

**Rod Detail:** 1-1/2"x22' Polished Rod  
99 - 3/4" scraped rods  
14 - 3/4" plain rods  
8 - 3/4" scraped rods  
81 - 3/4" plain rods  
4 - 3/4" scraped rods  
4 - 1-1/2" weight rods  
2-1/2"x1-1/2"x15-1/2' RHAC pump



Inland Resources Inc.

## Monument Butte State #8-2

2078 FNL 463 FEL

SENE Section 2-T9S-R16E

Duchesne Co, Utah

API #43-013-31509; Lease #ML-21839

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## Monument Butte State #9-2

Spud Date: 4/28/96  
Put on Production: 5/31/96  
GL: 5492' KB: 5505'

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 294.70'  
DEPTH LANDED: 292.75'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 131 jts. (5618.99')  
DEPTH LANDED: 5608'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Hyfill mixed & 265 sxs thixotropic  
CEMENT TOP AT: Surface per CBL

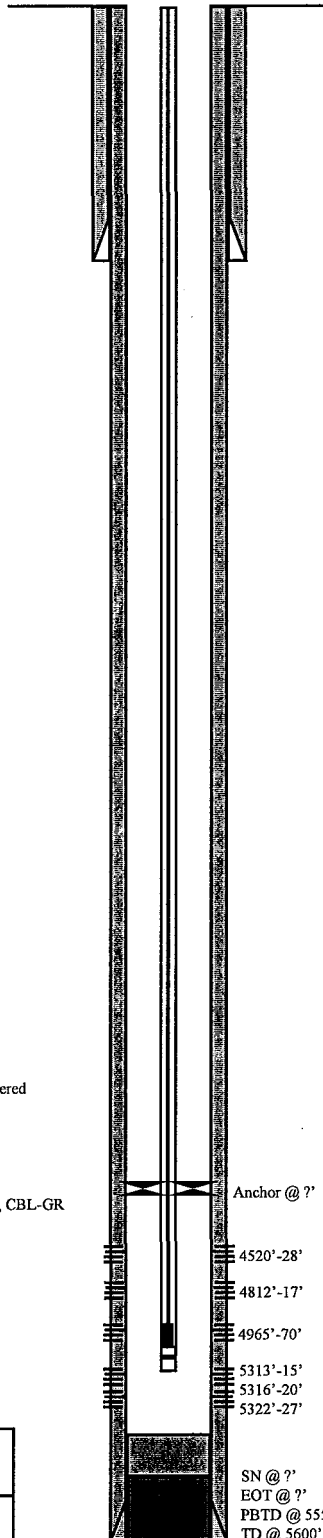
TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: ? jts  
TUBING ANCHOR: ?'  
TOTAL STRING LENGTH: ? (EOT @ ?)  
SN LANDED AT: ?

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 4-3/4" scraped, 107-3/4" slick rods, 95-3/4" scraped  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
STROKE LENGTH: ?"  
PUMP SPEED, SPM: 6-1/2 SPM  
LOGS: Dual Laterlog, GR, SP, Spectral Density-Dual Spaced Neutron, CBL-GR

Wellbore Diagram

FRAC JOB

5/20/96 5313'-5327' **Frac A-3 sand as follows:**  
73,000# of 20/40 sd in 445 bbls Boragel, broken down @ 3650 psi. Treated @ avg rate 20.3 bpm, avg press 1850 psi. ISIP-2042 psi, 5-min SI 1978 psi. Flowback after 5 min on 16/64 ck @ 1.6 bpm.

5/22/96 4812'-4970' **Frac C and D-1 zones as follows:**  
103,800# of 20/40 sd in 545 bbls Boragel. Breakdown @ 2690# treated @ avg rate of 30.5, avg press 2200#. ISIP-2121 psi, 5-min SI 2052 psi. Flowback after 5 min on 16/64" ck @ 1.6 bpm.

5/24/96 4520'-4528' **Frac PB-10 zone as follows:**  
78,800# of 20/40 sd in 431 bbls Boragel. Breakdown @ 3051# treated @ avg rate of 16.5 bpm, avg press 2200#. ISIP-3090 psi, 5-min SI 3046 psi. Flowback on 16/64" ck.

PERFORATION RECORD

5/18/96	5313'-5315'	4 JSPF	8 holes
5/18/96	5316'-5320'	4 JSPF	16 holes
5/18/96	5322'-5327'	4 JSPF	20 holes
5/21/96	4965'-4970'	2 JSPF	10 holes
5/21/96	4812'-4817'	2 JSPF	10 holes
5/23/96	4520'-4528'	4 JSPF	32 holes

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OIL, GAS AND MINING

10/6/00



Inland Resources Inc.

Monument Butte State #9-2

2058 FSL 713 FEL

NESE Section 2-T9S-R16E

Duchesne Co, Utah

API #43-013-31555; Lease #ML-21839



Spud Date: 12/2/82

Put on Injection: 8/18/94

GL: 5488' KB: 5500'

## Monument Butte Federal #1-13

Initial Production: 265  
STBOPD, 100 MCFD, 0  
STBWPD

Wellbore Diagram

SURFACE CASING

STRING: 1  
 SIZE: 8 5/8"  
 GRADE: K-55  
 WEIGHT: 24 lbs.  
 LENGTH: 7 jts @ 299'  
 HOLE SIZE: 12 1/4"  
 DEPTH LANDED: 311'KB  
 CEMENT DATA: 225 sx, Class G  
 Cement to surface

PRODUCTION CASING:

STRING:	1	2
SIZE:	5 1/2"	5 1/2"
GRADE:	J-55	J-55
WEIGHT:	15.5 lbs	14 lbs
LENGTH:	15 jts	132 jts
HOLE SIZE:	7 7/8"	
DEPTH LANDED:	6002'KB	
CEMENT DATA:	360 sx, BJ Lite	
	525 sx, Class G	
CEMENT TOP AT:	1800' from CBL	

1820TUBING:

169 JTS of 2-7/8", j-55, 6.5# set at 5476'.

TA at 4043'

SN at 5441'; 2.25" ID

FRAC JOB**4966'- 5283', Frac w/Halliburton on 1-10-83.**

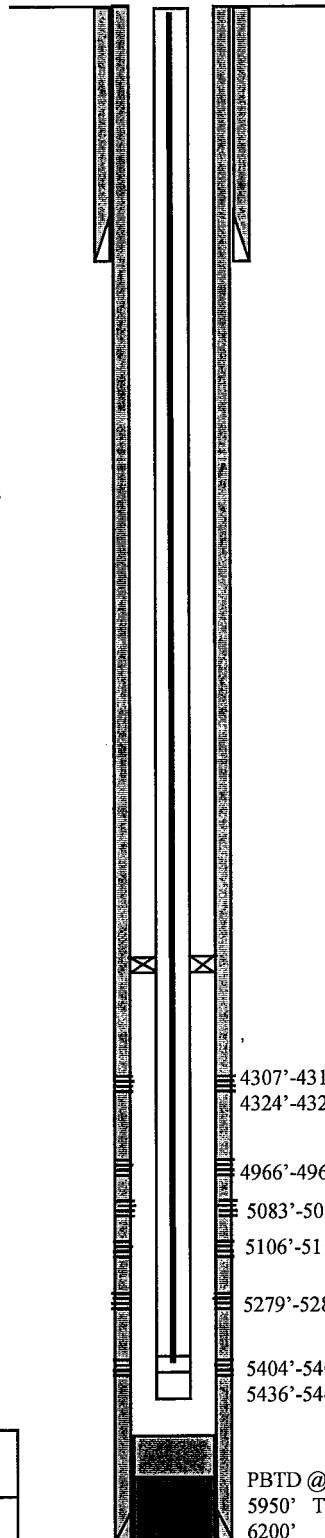
47000 gal x-linked gel w/200800 lbs 20-40  
 sand. avg. 60 BPM @ 2770 psig, max @ 2900 psig,  
 ISIP @ 2070 psig, 5 min @ 1890 psig, 15 min  
 @ 1860 psig.

**5404'- 5446', Frac w/Halliburton on 4-23-83.**

21500 gal Versagel & 91000 lbs 20-40 sand.  
 Avg. 20 BPM @ 4417 psig, max @ 4720 psig,  
 ISIP @ 2610 psig, 5 min @ 2420 psig, 10 min @  
 2350 psig, 15 min @ 2190 psig.

**4307'- 4327', Frac w/Halliburton on 5-26-83.**

26000 gal gel water w/122000 lbs 20-40 sand.  
 Avg. 20 BPM @ 2045 psig, max @ 2280 psig,  
 ISIP @ 2100 psig, 15 min @ 1730 psig.

PERFORATION RECORD:

4307'- 4318' (11') 2 SPF	YELLOW3
4324'- 4327' (3') 2 SPF	YELLOW3
4966'- 4969' (3') 1 SPF	RED5
5083'- 5087' (4') 1 SPF	GREEN1
5092'- 5095' (3') 1 SPF	GREEN1
5106'- 5113' (7') 1 SPF	GREEN1
5279'- 5283' (4') 1 SPF	GREEN4
5404'- 5409' (5') 2 SPF	GREEN6
5436'- 5446' (10') 2 SPF	GREEN6

PBTD @  
 5950' TD @  
 6200'



Inland Resources Inc.

Monument Butte Federal #1-13

1820 FSL 685 FWL

NWSW Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-30702; Lease #U-18399

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# UNICHEM

A Division of BJ Services

P.O. Box 217  
Roosevelt, Utah 84066

Office (435) 722-5066  
Fax (435) 722-5727

Attachment E-1

## WATER ANALYSIS REPORT

Company INLAND PRODUCTION Address \_\_\_\_\_ Date 1-27-00  
Source JOHNSON Data Sampled 1-26-00 Analysis No. \_\_\_\_\_

	Analysis	mg/l(ppm)	*Meg/l
1. PH	<u>7.4</u>		
2. H <sub>2</sub> S (Qualitative)	<u>0.5</u>		
3. Specific Gravity	<u>1.001</u>		
4. Dissolved Solids		<u>600</u>	
5. Alkalinity (CaCO <sub>3</sub> )	CO <sub>3</sub>	<u>0</u>	+ 30 <u>0</u> CO <sub>3</sub>
6. Bicarbonate (HCO <sub>3</sub> )	HCO <sub>3</sub>	<u>240</u>	+ 61 <u>4</u> HCO <sub>3</sub>
7. Hydroxyl (OH)	OH	<u>0</u>	+ 17 <u>0</u> OH
8. Chlorides (Cl)	Cl	<u>71</u>	+ 35.5 <u>2</u> Cl
9. Sulfates (SO <sub>4</sub> )	SO <sub>4</sub>	<u>130</u>	+ 48 <u>3</u> SO <sub>4</sub>
10. Calcium (Ca)	Ca	<u>72</u>	+ 20 <u>4</u> Ca
11. Magnesium (Mg)	Mg	<u>41</u>	+ 12.2 <u>3</u> Mg
12. Total Hardness (CaCO <sub>3</sub> )		<u>350</u>	
13. Total Iron (Fe)		<u>0.6</u>	
14. Manganese			
15. Phosphate Residuals			

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION

<u>4</u>	Ca	←	HCO <sub>3</sub>	<u>4</u>
<u>3</u>	Mg	→	SO <sub>4</sub>	<u>3</u>
<u>2</u>	Na	→	Cl	<u>2</u>

#### Saturation Values

CaCO<sub>3</sub>

CaSO<sub>4</sub> · 2H<sub>2</sub>O

MgCO<sub>3</sub>

#### Distilled Water 20°C

13 Mg/l

2,090 Mg/l

103 Mg/l

Compound	Equlv. Wt.	X	Meg/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	11.04	<u>4</u>			<u>324</u>
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.50				
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17				
MgSO <sub>4</sub>	60.19	<u>3</u>			<u>181</u>
MgCl <sub>2</sub>	47.62				
NaHCO <sub>3</sub>	64.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03				
NaCl	58.48				

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REMARKS \_\_\_\_\_

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# UNICHEM

A Division of BJ Services

P.O. Box 217  
Roosevelt, Utah 84088

Attachment E-2

Office (435) 722-5086  
Fax (435) 722-5727

## WATER ANALYSIS REPORT

Company INLAND PRODUCTION Address \_\_\_\_\_ Date 8-25-99  
Source MBIF Date Sampled 8-25-99 Analysis No. \_\_\_\_\_

	Analysis	mg/l(ppm)	*Mg/l
1. PH	8.0		
2. H <sub>2</sub> S (Qualitative)	0		
3. Specific Gravity	1.001		
4. Dissolved Solids		688	
5. Alkalinity (CaCO <sub>3</sub> )		CO <sub>3</sub> 0	+ 30 0 CO <sub>3</sub>
6. Bicarbonate (HCO <sub>3</sub> )		HCO <sub>3</sub> 430	+ 61 7 HCO <sub>3</sub>
7. Hydroxyl (OH)		OH 0	+ 17 0 OH
8. Chlorides (Cl)		Cl 71	+ 35.5 2 Cl
9. Sulfates (SO <sub>4</sub> )		SO <sub>4</sub> 0	+ 48 0 SO <sub>4</sub>
10. Calcium (Ca)		Ca 40	+ 20 2 Ca
11. Magnesium (Mg)		Mg 12	+ 12.2 1 Mg
12. Total Hardness (CaCO <sub>3</sub> )		150	
13. Total Iron (Fe)		13	
14. Manganese		0	
15. Phosphate Residuals			

\*Milli equivalents per liter

### PROBABLE MINERAL COMPOSITION

2	Ca	←	HCO <sub>3</sub>	7
1	Mg	←	SO <sub>4</sub>	0
0	Na	←	Cl	2

#### Saturation Values

CaCO<sub>3</sub>

CaSO<sub>4</sub> · 2H<sub>2</sub>O

MgCO<sub>3</sub>

#### Distilled Water 20°C

13 Mg/l

2,080 Mg/l

103 Mg/l

Compound	Eqvly. Wt.	X	Mg/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04	2			162
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.50				
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17	1			73
MgSO <sub>4</sub>	60.19				
MgCl <sub>2</sub>	47.62				
NaHCO <sub>3</sub>	84.00	4			336
Na <sub>2</sub> SO <sub>4</sub>	71.03				
NaCl	58.46				

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Roosevelt, Utah, 84066Office (435) 722-5066  
Fax (435) 722-5727

Attachment E-3

**WATER ANALYSIS REPORT**

Company Inland Address \_\_\_\_\_ Date 10/17/00  
 Source Mon. Butte Fed 5-1-9-16 TRT Date Sampled 10/16/00 Analysis No. \_\_\_\_\_

Analysis	mg/l(ppm)	*Meg/l
1. PH	8.7	
2. H <sub>2</sub> S (Qualitative)	3.0	
3. Specific Gravity	1.030	
4. Dissolved Solids	32,558	
5. Alkalinity (CaCO <sub>3</sub> )	CO <sub>3</sub> 0	+ 30 0 CO <sub>3</sub>
6. Bicarbonate (HCO <sub>3</sub> )	HCO <sub>3</sub> 360	+ 61 6 HCO <sub>3</sub>
7. Hydroxyl (OH)	OH 0	+ 17 0 OH
8. Chlorides (Cl)	Cl 19,500	+ 35.5 549 Cl
9. Sulfates (SO <sub>4</sub> )	SO <sub>4</sub> 0	+ 48 0 SO <sub>4</sub>
10. Calcium (Ca)	Ca 160	+ 20 8 Ca
11. Magnesium (Mg)	Mg 48	+ 12.2 4 Mg
12. Total Hardness (CaCO <sub>3</sub> )	600	
13. Total Iron (Fe)	1.0	
14. Manganese	0.0	
15. Phosphate Residuals		

\*Milli equivalents per liter

**PROBABLE MINERAL COMPOSITION**

8	Ca	HCO <sub>3</sub>	6
4	Mg	SO <sub>4</sub>	0
543	Na	Cl	549

**Saturation Values**CaCO<sub>3</sub>CaSO<sub>4</sub> · 2H<sub>2</sub>OMgCO<sub>3</sub>**Distilled Water 20°C**

13 Mg/l

2,090 Mg/l

103 Mg/l

Compound	Equly. Wt.	X	Meg/l	=	Mg/l
Ca(HCO <sub>3</sub> ) <sub>2</sub>	81.04	6			486
CaSO <sub>4</sub>	68.07				
CaCl <sub>2</sub>	55.50	2			111
Mg(HCO <sub>3</sub> ) <sub>2</sub>	73.17				
MgSO <sub>4</sub>	60.19				
MgCl <sub>2</sub>	47.62	4			191
NaHCO <sub>3</sub>	84.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03				
NaCl	58.46				
		543			31,744

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DIVISION OF  
OIL, GAS AND MINING

Received Time Oct. 31 - 3:35PM



## AQUAMIX SCALING PREDICTIONS

Attachment E-4

10-17-2000

COMPANY: INLAND PRODUCTION CO  
 LOCATION:  
 SYSTEM:

WATER DESCRIPTION: MBF 5-1-9-16 TRT

	INPUT ANALYSIS	VALUES USED IN CALCULATIONS
P-ALK AS PPM CaCO <sub>3</sub>	0	0
M-ALK AS PPM CaCO <sub>3</sub>	590	590
SULFATE AS PPM SO <sub>4</sub>	0	
CHLORIDE AS PPM Cl	19500	19500
HARDNESS AS PPM CaCO <sub>3</sub>	0	
CALCIUM AS PPM CaCO <sub>3</sub>	400	400
MAGNESIUM AS PPM CaCO <sub>3</sub>	202	202
SODIUM AS PPM Na	12489	12489
BARIUM AS PPM Ba	0	
STRONTIUM AS PPM Sr	0	0
CONDUCTIVITY	0	32549
TOTAL DISSOLVED SOLIDS	32558	
TEMP (DEG-F)	100	
SYSTEM pH	8.7	8.7
pH		

## RESULTS:

IONIC STRENGTH-MOLAL	.562
SPECIFIC GRAVITY (EST. VALUE)	1.02
TOTAL DISSOLVED SOLIDS-PPM (EST. VALUE)	32549

## SCALING PREDICTIONS OVER A RANGE OF TEMPERATURES:

DEG-F	STIFF DAVIS CaCO <sub>3</sub> INDEX	lbs/1000 BBL EXCESS CaCO <sub>3</sub>	mg/l BaSO <sub>4</sub> IN EXCESS OF SATURATION	mg/l SrO <sub>4</sub> IN EXCESS OF SATURATION	mg/l Gypsum IN EXCESS OF SATURATION
80	.88	103	0	0	0
100	1.13	116	0	0	0
120	1.40	125	0	0	0
140	1.75	132	0	0	0
160	2.09	136	0	0	0
180	2.49	138	0	0	0
200	2.90	139	0	0	0

Received Time Oct.31. 3:35PM

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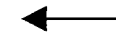
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OIL, GAS AND MINING



Attachment "F"

**Monument Butte Federal #5-1-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5257	5263	5260	2040	0.821	2027
5296	5301	5299	2040	0.818	2028
5074	5085	5080	2036	0.834	2023
5090	5093	5092	2036	0.833	2024
5095	5098	5097	2036	0.832	2024
4785	4894	4840	1600	0.764	1572
4830	4839	4835	1600	0.764	1588
4867	4874	4871	1600	0.762	1588
4891	4897	4894	1600	0.760	1588
				<b>Minimum</b>	<b>1572</b>



**Calculation of Maximum Surface Injection Pressure**

$P_{max} = (\text{Frac Grad} - (0.433 \times 1.005)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.005.

$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Avg. Depth})) / \text{Avg. Depth}$

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**Monument Butte Federal #5-1  
Daily Completion Report**

11/9/95 Present Operation: TIH to perf. (Day 1)  
Summary: 11/8/95 - MIRU Basin WS. NU BOP. PU 3-3/4" bit, 5-1/2" scrpr, tally & rabbit 197 jts 2-7/8". Tag PBDT @ 6053' KB. Land tbg w/EOT @ 6036'. RU pmp & lines, press tst csg to 3000 psi, OK. Swb FL to 4800' (rec 103 BW). RD Swb. TOH w/tbg, bit & scrpr. Drain pmp & lines. SDFN.  
Cost: \$2,305 Total Well Cost: \$139,077

11/10/95 Present Operation: POOH w/tbg for frac. (Day 2) *and 5296' - 5301'*  
Summary: 11/9/95 - RU wireline. RIH w/4" csg gun. Perf A Sd @ 5257-63' w/4 shots/ft. RD wireline w/NC 175 jts 2-7/8" tbg. EOT @ 5374'. RU swb equip. IFL @ 4800', FFL @ 5200'. Made 11 runs. Rec 12.5 BW w/trace of oil last 6 runs. FL maint @ 5200'. RD swb equip. Drain pmp & lines. SWIFN.  
Cost: \$2,005 Total Well Cost: \$141,082

11/11/95 Present Operation: RIH w/NC to clean out sd. (Day 3)  
Summary: 11/10/95 - SITP 0#. RU swb eq. IFL @ 3800', FFL @ 4200'. Made 6 runs, rec 35 bbls fluid, trace oil. RD swb eq. POOH w/175 jts 2-7/8" tbg. NU tree saver. RU Haliburton. Frac "A" Sd @ 5259-63', 5296-5301' w/86,800# 20/40 sd in 27,365 gel. Start flowback after 10 min, SI @ 1 bpm on 12/64" ck. Flowed for 3-1/2 hrs, rec 185 bbls frac fluid, 466 BLWTBR.  
Cost: \$23,225 Total Well Cost: \$164,307

11/12/95 Present Operation: Frac. (Day 4)  
Summary: 11/11/95 - SIP 0#. RU Haliburton WL. RIH w/RBP set @ 5190'. RU & press tst BP to 3000#. RU WL. RIH w/Bailer, dump 1 sk sd on RBP @ 5190'. RD WL. RIH w/163 jts tbg. EOT @ 4998'. RU swb eq, swb well dn to 4500'. POOH w/tbg. RU WL. RIH w/4" csg gun, perf "B" sd @ 5074-85', 5090-93', 5095-98'. RD WL. RIH w/tbg to 5120'. RU swb eq. IFL @ 4500', FFL @ 5120'. Made 5 runs, rec 10 bbls wtr, 456 BLWTBR. SWIFN.  
Cost: \$4,340 Total Well Cost: \$168,647

11/13/95 SD for Sunday.

11/14/95 Summary: 11/13/95 - TP 0 psi, CP 0 psi. RIH w/swb. IFL @ 4100' (1020' fillup overnite). Made 6 runs, rec 24 bbls wtr. FFL @ 5100'. TOH w/tbg, RU HLS & frac "B" sd w/89,500# 20/40 sd & 24,797 gal Boragel. Avg rate 35 bpm, max press 2260 psi, 1800 psi avg. ISIP 2036 psi, 5 min 1905 psi, 10 min 1853 psi. Start flow back on 12/64" ck @ 1 bpm. Flowed for 2-1/2 hrs then died. Rec 165 bbls fluid. 881 BLWTBR. SDFN.  
Cost: \$23,010 Total Well Cost: \$191,657

11/15/95 Present Operation: Break dn "D" perfs.  
Summary: 11/14/95 - TP 0 psi. ND tree saver, RU HLS, set RBP @ 5000'. Tst csg to 3000 psi, OK. Dump bail 1 sk sd. TIH w/NC to 4800'. Swb fluid dn to 4300', rec 90 BLW. TOH w/tbg. RU HLS & perf "D" sd @ 4785-94', 4830-39', 4867-74' & 4891-97' 4 SPF, 124 shots total. RD. TIH w/5-1/2 RTTS pkr to 4704'. 791 BLWTBR. SDFN.  
Cost: \$5,025 Total Well Cost: \$196,682

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Monument Butte Federal #5-1  
Daily Completion Report  
Page Two

- 11/16/95 Present Operation: Swb POOH, frac. (Day 7)  
Summary: 11/15/95 - CP 100 psi, TP 50 psi. Blow dn press, well dead. Set RTTS pkr @ 4704'. RU swb, IFL 4000', pull 3 runs rec 5 BW w/trace of oil. FFL 4700'. RU Halliburton, breakdown "D" perms w/101 bbls 2% KCl wtr & 200 ball sealers @ 7 bbls/min. Fm broke @ 2375 psi, moderate ball action, no ball out. ISIP 1600, 5 min 890, 10 min 717, 15 min 601. Surge balls off. Release pkr & swb tbg dry in 12 runs. Rec 33 BLW. Est 854 BLWTBR. SDFN.  
Cost: \$2,970 Total Well Cost: \$199,652
- 11/17/95 Present Operation: RIH for BP. (Day 8)  
Summary: 11/16/95 - SIP 150 psi. Swbd FL from 3200-4100' in 6 runs, rec 28 bbls fluid w/80% oil cut. TOH w/tbg. RU Halliburton. Frac "D" zone w/110,000# 20/40 sd & 32,503 gals Boragel. Start flow back @ 1 bpm after 10 min, SI. Well flowed 3 hrs before bleeding off. Rec 180 bbls frac fluid w/sd @ times. SDFN.  
Costs: \$25,280 Total Well Cost: \$224,932
- 11/18/95 Present Operation: Swbg. (Day 9)  
Summary: 11/17/95 - TP 0 psi, CP 0 psi. TIH w/ret head, tag sd @ 4950'. Rev circ sd to RBP @ 5000', retrieve plug & TOH. TIH w/head, tag sd @ 5127' rev circ to RBP @ 5190'. Retrieve & TOH. Lost est 40 BLW while circ. TIH w/notched collar, 12 jts, AC, 1 jt, SN, 139 jts. SDFN.  
DC: 1,535 Total Well Cost: \$226,467
- 11/19/95 Present Operation: Swbg. (Day 10)  
Summary: 11/18/95 - TP 0 psi, CP 0 psi. Finish TIH w/tbg to 5375', run sd line & tag sd @ 5938'. RU swb. IFL @ 0'. 29 runs rec 273 BTF, final cut 20% oil & good gas. FFL 1100'. SDFN.  
DC: \$1,600 Total Well Cost: \$228,067
- 11/20/95 SD for Sunday.
- 11/21/95 Present Operation: Put on production. (Day 11)  
Summary: 11/20/95 - TP 400 psi, CP 400 psi. Blow dn, IFL 500, Swb 5 runs, rec 43.5 BTF, 80% oil cut first run, 30% oil cut last run, no sd. Well flowed 10 BTF, Pmp 20 BW dn tbg & csg to kill. ND BOP. Set AC w/12,000# tension @ 5014' w/SN @ 4983', tail @ 5384'. NU wellhead. PU (1-1/2 x 16' THD) Trico pmp, 4 - 1-1/2" sinker bars; 4 - 3/4" scraped rods, 93 - 3/4" plain, 98 - 3/4" scraped, 1-1/2" polish rod & seat pmp. Stroke & press tst tbg. Hang horse head. RDMO. **PUT ON PRODUCTION @ 5 PM, 11/20/95.**  
DC: \$25,040 TWC: \$253,107

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## **ATTACHMENT G**

### **WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1. Plug #1 Set 377' plug from 4974'-5351' with 50 sxs Class "G" cement.
2. Plug #2 Set 262' plug from 4685'-4947' with 35 sxs Class "G" cement.
3. Plug #3 Set 200' plug from 2000'-2200' with 25 sxs Class "G" cement.
4. Plug #4 Set 100' plug from 255'-355' with 20 sxs Class "G" cement (50' above and 50' below casing shoe).
6. Plug #6 Set 50' plug from surface with 10 sxs Class "G" cement.
7. Plug #7 Pump 50 sxs Class "G" cement down the 7-7/8" x 5-1/2" annulus to cement to surface.

Monument Butte Federal #5-1-9-16

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Put on production: 11/20/95  
GL: 5428'

## Monument Butte Federal #5-1

## Well History:

7-24-95 Spud Well  
11-10-95 Perf: 5,257'-5,293'  
11-11-95 Frac A zone as follows:  
Totals 27,365 gals Boragel  
86,800# 20/40 sd  
11-12-95 Perf: 5,074'-5,085', 5,090'-5,093',  
5,095'-5,098'  
11-14-95 Frac B-2 zone as follows:  
Totals 24,797 gals Boragel  
89,500# 20/40 sd  
Avg TP 1,800 @ 35 BPM  
ISIP 2,036, after 5 min 1,905  
11-15-95 Perf: 4,785'-4,794', 4,830'-4,839',  
4,867'-4,874', 4,891'-4,897'  
11-16-95 Frac D-1, D-2 and D-3 zones as  
follows:  
Totals 32,503 bbls Broagel  
110,000# 20/40 sd

Surface Hole Size: 12 1/4"

Hole Size: 7 7/8"

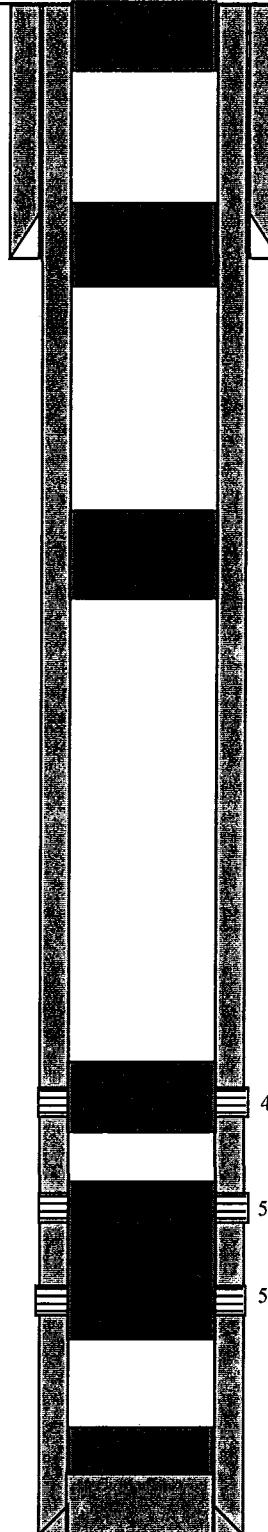
8-5/8" CSG @ 305'

5-1/2" 15.5# & 14# J-55 @ 6,076'

2-7/8" 6.5# J-55 tbg @ 5,091'

Proposed P & A  
Wellbore Diagram

Initial Production: 135 BOPD,  
120 MCFD, 55 BWPD



10 sx Class "G" cmt, 50' to surface

50 sx Class "G" cmt, down  
annulus to cement to surface

20 sx Class "G" cmt, from 255' to 355'

25 sx Class "G" cmt, from 2000'-2200'

4785'-4897' 35 sx Class "G" cmt, from  
4685' to 4947'

5074'-5098' 50 sx Class "G" cmt, from  
4974' to 5351'

5257'-5301'

PBTD @ 6,053'  
TD @ 6,087'



Inland Resources Inc.

## Monument Butte Federal #5-1

662 FWL 1982 FNL

SWNW Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-31507; Lease #UTU-72103

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10/27/00  
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STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

*SUBMIT IN TRIPLICATE*

1. Type of Well



Oil Well



Gas well



Other

2. Name of Operator

**INLAND PRODUCTION COMPANY**

3. Address and Telephone No.

**410 Seventeenth Street, Suite 700 Denver, CO 80202 (303) 893-0102**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SW/NW Sec. 1, T9S, R16E 1984' FNL & 666' FWL**

5. Lease Designation and Serial No.

**UTU-72103**

6. If Indian, Allottee or Tribe Name

**NA**

7. If unit or CA, Agreement Designation

8. Well Name and No.

**Mon Butte Fed 5-1-9-16**

9. API Well No.

**43-013-31507**

10. Field and Pool, or Exploratory Area

**Monument Butte**

11. County or Parish, State

**Duchesne County, UT**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION



Notice of Intent



Abandonment



Change of Plans



Subsequent Report



Recompletion



New Construction



Final Abandonment Notice



Plugging Back



Non-Routine Fracturing



Casing repair



Water Shut-off



Altering Casing



Conversion to Injection



Other \_\_\_\_\_



Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Please see attached injection application.

14. I hereby certify that the foregoing is true and correct

Signed

**Joyce A. McGough**

Title

**Regulatory Specialist**

Date

**Apr. 8, 2000**

(This space of Federal or State office use.)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as

to any matter within its jurisdiction.

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SECRETARY, BOARD OF  
OIL, GAS & MINING

IN THE MATTER OF THE REQUEST	)	FINDINGS OF FACT,
FOR AGENCY ACTION OF INLAND	)	CONCLUSIONS OF LAW, AND
PRODUCTION COMPANY FOR	)	ORDER GRANTING APPROVAL
APPROVAL OF UNIT OPERATIONS	)	OF UNIT AND ENHANCED AND
AND ENHANCED AND SECONDARY	)	SECONDARY RECOVERY,
RECOVERY IN THE GREEN RIVER	)	AUTHORITY FOR
FORMATION IN SECTIONS 1 AND 2,	)	UNDERGROUND INJECTION OF
TOWNSHIP 9 SOUTH, RANGE 16	)	WATER, AND FOR
EAST, S.L.M., DUCHESNE COUNTY,	)	CERTIFICATION AS AN
UTAH, FOR AUTHORITY FOR	)	ENHANCED RECOVERY PROJECT
UNDERGROUND INJECTION OF	)	
WATER, AND CERTIFICATION AS	)	
AN ENHANCED RECOVERY	)	
PROJECT	)	
		Docket No. 2001-006
		Cause No. 213-7

THIS CAUSE came on regularly for hearing before John Baza, Associate Director-- Oil and Gas, Utah Division of Oil, Gas and Mining (the "Division"), as the Utah Board of Oil, Gas and Mining's (the "Board") designated hearing examiner, on Friday, May 11, 2001, at the hour of 1:30 p.m. in Suite 314, Department of Natural Resources, 1594 West North Temple, Salt Lake City, Utah, and regularly for hearing before the Board on Wednesday, May 23, 2001, at the hour of 10:00 a.m. in the Carbon County Courthouse, 120 East Main Street, Price, Utah. The following Board members were present at the May 23, 2001 hearing: Elise L. Erler, Acting Chairperson, Stephanie Cartwright, J. James Peacock, Robert Bayer, and Kent R. Petersen. Gil Hunt, Technical Services Manager, Brad Hill, Petroleum Geologist, and R. Allen McKee, Petroleum Engineer, were present for the Division at the May 11, 2001 hearing. Kurt E. Seel, Assistant Attorney General and



counsel to the Board was present at the May 23, 2001 hearing. The petitioner, Inland Production Company ("Inland"), was represented by Thomas W. Clawson of Van Cott, Bagley, Cornwall & McCarthy at both hearings. Jeff Fandrich, Manager of Land, and Kevin S. Weller, Manager of Development Operations, testified on behalf of the petitioner at the May 11, 2001 hearing. Attending both hearings and participating on behalf of the United States Department of the Interior, Bureau of Land Management ("BLM") was Robert Henricks, Chief—Branch of Fluid Minerals, Utah State Office. LaVonne J. Garrison, Associate Director, Utah School and Institutional Trust Lands Administration ("SITLA"), provided a letter (which was read into the record at the May 11, 2001 hearing) in support of Inland's Request for Agency Action and the South Monument Butte Unit Agreement, as revised and amended. No parties appeared in opposition to Inland's Request for Agency Action in this matter. At both hearings Inland made an oral motion for entry of an order of default against all parties who received notice of Inland's Request for Agency Action and the two hearings regarding Inland's Request but who failed to participate in the Board's formal adjudicative proceeding. After considering Inland's motion and the designated hearing examiner's recommended findings of fact and conclusions of law, the Board granted Inland's motion and approved petitioner's request to approve unit and enhanced and secondary recovery operations, authority for underground injection of water, and to certify the South Monument Butte Unit as an "Enhanced Recovery Project." The Board's vote approving Inland's Request for Agency Action and granting Inland's motion was unanimous.

NOW, THEREFORE, the Board having fully considered Inland's motion for the entry of an order of default and the designated hearing examiner's recommended findings of fact and conclusions of law as based on the testimony adduced and the exhibits received at the May 11,



2001 hearing, being fully advised by Hearing Examiner Baza, and good cause appearing, hereby makes the following Findings of Fact, Conclusions of Law, and Order:

### FINDINGS OF FACT

1. Notices of the time, place, and purpose of the May 11, 2001 hearing and the Board's regularly scheduled May 23, 2001 hearing were mailed to all interested parties and all owners or operators and surface owners within one-half mile of the proposed unit by first-class mail, postage prepaid, and were duly published in the Salt Lake Tribune, Deseret News, and the Uintah Basin Standard pursuant to the requirements of Utah Administrative Code ("U.A.C.") Rule R641-106-100 (2000). Copies of the Request for Agency Action were mailed to all interested parties pursuant to U.A.C. Rule R641-104-135.

2. Inland Production Company is a Texas corporation in good standing, having its principal place of business in Denver, Colorado, and is qualified to, and is doing business in Utah.

3. The proposed South Monument Butte Unit embraces the following described lands in the Monument Butte Field, Duchesne County, Utah:

Township 9 South, Range 16 East, S.L.M.

Section 1: Lots 3 and 4, S $\frac{1}{2}$ NW $\frac{1}{4}$

Section 2: S $\frac{1}{2}$ , SW $\frac{1}{4}$ NW $\frac{1}{4}$ , SE $\frac{1}{4}$ NE $\frac{1}{4}$

(containing 560.18 acres, more or less).

4. The formation to be unitized and approved for enhanced and secondary recovery operations is the Green River Formation, more particularly described as follows:

The subinterval of the Green River Formation as identified by the CNL/FDC log run in the Monument Butte Federal #5-1 Well located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 1, Township 9 South, Range 16 East, S.L.M., with the top of the subinterval being found at a measured depth of 3,750



feet, a vertical depth of 3,740 feet below the surface, and the base of the subinterval being found at a measured depth of 6,230 feet, a vertical depth of 6,220 feet below the surface, or the stratigraphic equivalent thereof.

5. The minerals in the lands embraced within the proposed South Monument Butte Unit are subject to United States Oil and Gas Lease Nos. U-72103 and U-72104, and State of Utah Mineral Lease No. ML-21839. The oil and gas and other hydrocarbon minerals subject to these leases are owned by either the United States of America or the State of Utah.

6. Inland owns working interests in the acreage sought to be unitized.

7. The United States of America and the State of Utah are the surface owners of the lands embraced within the proposed unit area. The federal subject lands are administered by the BLM and the state subject lands are administered by SITLA.

8. Drilling within the proposed project area has proceeded under state-wide location and density patterns for the location and siting of wells established by Rule R649-3-2, U.A.C., and predecessor rules.

9. The following wells have been completed in the acreage sought to be unitized:

a. Monument Butte Federal #1-1 situated in the NE $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 1, Township 9 South, Range 16 East. First production occurred in July 1981.

b. Monument Butte Federal #4-1 situated in the NW $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 1, Township 9 South, Range 16 East. First production occurred in November 1995.

c. Monument Butte Federal #5-1 situated in the SW $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 1, Township 9 South, Range 16 East. First production occurred in November 1995.



- d. Monument Butte Federal #6-1 situated in the SE $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 1, Township 9 South, Range 16 East. First production occurred in June 1996.
- e. South Wells Draw #5-2 situated in the SW $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 2, Township 9 South, Range 16 East. First production occurred in December 2000.
- f. Monument Butte State #8-2 situated in the SE $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 2, Township 9 South, Range 16 East. First production occurred in December 1995.
- g. Monument Butte State #9-2 situated in the NE $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 2, Township 9 South, Range 16 East. First production occurred in May 1996.
- h. Monument Butte State #10-2 situated in the NW $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 2, Township 9 South, Range 16 East. First production occurred in February 1997.
- i. South Wells Draw #11-2 situated in the NE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 2, Township 9 South, Range 16 East. This well is waiting on completion.
- j. South Wells Draw #12-2 situated in the NW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 2, Township 9 South, Range 16 East. First production occurred in December 2000.
- k. South Wells Draw #13-2 situated in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 2, Township 9 South, Range 16 East. First production occurred in December 2000.
- l. South Wells Draw #14-2 situated in the SE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 2, Township 9 South, Range 16 East. First production occurred in June 2000.
- m. Monument Butte State #15-2 situated in the SW $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 2, Township 9 South, Range 16 East. First production occurred in June 2000.
- n. Monument Butte State #16-2 situated in the SE $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 2, Township 9 South, Range 16 East. First production occurred in October 1996.



10. All of the wells described above have produced (or are expected to produce) oil and gas from the Green River Formation.

11. The reservoir underlying the proposed project area is a solution-gas drive reservoir that is slightly under-saturated and slightly under pressured. As is characteristic of such reservoirs, there is a relatively rapid loss of reservoir energy as primary production occurs, resulting in a rapid decline in production and low primary recovery.

12. As of April 1, 2001, the remaining estimated gross economic proved producing reserves for the producing wells within the proposed South Monument Butte Unit are approximately 452,000 barrels of oil and 825,000 MCF of gas. Together with the historic production from the wells within the proposed unit area, this primary production represents approximately four percent of the original oil in place. If enhanced recovery operations as outlined in petitioner's Request for Agency Action and as presented at the May 11, 2001 hearing are implemented in the proposed South Monument Butte Unit, total gross remaining reserves are estimated to be approximately 837,000 barrels of oil and 1,318,000 MCF of gas.

13. A water flood enhanced and secondary recovery project in the Green River Formation in the proposed South Monument Butte Unit area could increase ultimate recovery by approximately 385,000 barrels of oil and 493,000 MCF of gas, representing an aggregate recovery of approximately eight to ten percent of the original oil in place.

14. Inland is the operator of numerous other water flood secondary recovery projects in the Monument Butte Field area, for example, the Monument Butte "D" Sand Unit, the Hawkeye (Green River) Unit, the Gilsonite Unit, the Expanded Travis Unit, Greater Boundary Unit, the Sand Wash Unit, and West Point (Green River) Unit, and three enhanced and secondary recovery projects, the Monument Butte Northeast Project, the Monument Butte East Project, and



the Odekirk Spring 36 Waterflood Project. Inland is experienced in the operation of water flood projects.

15. The initial water injection wells will be the Monument Butte Federal #1-1 Well situated in the NE $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 1, the Monument Butte Federal #5-1 Well situated in the SW $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 1, the Monument Butte State #9-2 Well situated in the NE $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 2, the South Wells Draw #11-2 Well situated in the NE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 2, and the Monument Butte State #15-2 Well situated in the SW $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 2, all in Township 9 South, Range 16 East. All technical requirements for the approval of the Monument Butte Federal #5-1 Well as a Class II injection well have been met. The remaining proposed initial injection wells will be approved by the Division on an administrative basis following the completion of the UIC application process.

16. Under the proposed enhanced and secondary recovery plan, the average injection rate will be approximately 200 barrels per day per injection well. The maximum injection rate will be 500 barrels per day. The maximum pressure will vary by well, but will be within the range of approximately 1,588 to 2,068 p.s.i., or a pressure less than parting pressure as determined by step-rate tests.

17. The majority of the water to be used for the water flood project is to be acquired from the Johnson Water District, which water is suitable for injection. Water from the identical source is now being used, or is authorized for use, for water flood operations at other water flood units or projects operated by Inland, as authorized by the Board. The remaining water to be injected will be obtained from wells producing oil and gas from the formation that is being injected. That produced water also is suitable for injection.



18. It is estimated that the proposed water flood project will not require any additional expense beyond the expenses associated with primary recovery operations. Enhanced and secondary recovery will result in recovery of approximately 385,000 additional barrels of oil and 493,000 MCF of gas. The value of the estimated additional recovery of oil and gas substantially exceeds the estimated additional cost incident to conducting enhanced and secondary recovery operations.

19. No voluntary agreements as contemplated by Section 40-6-7(1) of the Utah Code Annotated and no plan of development and operation of the pool as contemplated by Section 40-6-7(2) of the Utah Code Annotated exist with respect to the proposed South Monument Butte Unit.

20. The proposed voluntary agreement contemplated by Sections 40-6-7 and 40-6-8 of the Utah Code Annotated will take the form of the South Monument Butte Unit Agreement and South Monument Butte Unit Operating Agreement, as introduced, amended, and admitted into evidence at the May 11, 2001 hearing, and which contain all provisions required by statute. The South Monument Butte Unit Agreement (Figure 5 in Exhibit 1, as introduced and admitted at the May 11, 2001 hearing) was amended and revised at the hearing by Exhibit 4 (amended participation and allocation formula) and Exhibits 5 and 6 (respectively revising Exhibits "B" and "C" to the unit agreement) (collectively, hereinafter, the "Revised South Monument Butte Unit Agreement.") The South Monument Butte Unit Operating Agreement (Figure 6 in Exhibit 1, as introduced and admitted at the May 11, 2001 hearing) was revised and amended at the hearing by Exhibit 7 (revising Exhibit "D" to the unit operating agreement) (hereinafter, the "Revised South Monument Butte Unit Operating Agreement.")



21. In excess of 70 percent of all owners of working interests and non-cost bearing interests, such as royalty and overriding royalty interests, are agreeable to the plan of unit development and enhanced and secondary recovery operations prescribed by the Division and the Board, as provided in petitioner's Request for Agency Action and Exhibits 1 through 9 as introduced and admitted at the May 11, 2001 hearing, and have expressed in writing their approval of said plan of operations.

22. The United States of America has indicated that it is willing to approve the proposed unit, enhanced, and secondary recovery operations.

23. Inland will be designated unit operator.

24. The formula for allocation of costs and production proposed by Inland as contained in the Revised South Monument Butte Unit Agreement utilizes parameters common in the industry and the participation formula is consistent with industry practices.

25. The Revised South Monument Butte Unit Agreement and Revised South Monument Butte Unit Operating Agreement, with attachments, as amended and revised and as introduced and admitted at the May 11, 2001 hearing as materials in Exhibits 1, 4, 5, 6, and 7 are acceptable to the Division and the Board.

26. The Geology and Engineering Report for the proposed South Monument Butte Unit as revised by Exhibits 8 and 9 and as introduced and admitted at the May 11, 2001 hearing as materials contained in Exhibit 2, is acceptable to the Division and the Board.

27. The plan of development contained in the Revised South Monument Butte Unit Agreement, the Revised South Monument Butte Unit Operating Agreement, and the Geology & Engineering Report will satisfy the requirements of Section 40-6-8(3) of the Utah Code Annotated, and will accomplish the goals of the enhanced and secondary recovery project.



28. Unit, enhanced, and secondary recovery operations in the proposed South Monument Butte Unit area are necessary to fulfill the purposes of Chapter 6 of Title 40 of the Utah Code Annotated.

29. Section 59-5-102(4) of the Utah Code Annotated provides that a 50% reduction in the severance tax rate is imposed upon the incremental production achieved from an enhanced recovery project. Section 59-5-101(4) provides, in pertinent part, that:

“Enhanced recovery project” means: (a) the injection of liquids . . . directly into a reservoir for the purpose of augmenting reservoir energy, modifying the properties of the fluids or gases in a reservoir, or changing the reservoir conditions to increase the recoverable oil, gas, or oil and gas through the joint use of two or more well bores; and (b) a project initially approved by the board as a new or expanded recovery project on or after January 1, 1996.

Section 59-5-101(6) provides that:

“Incremental production” means that part of production, certified by the Division of Oil, Gas and Mining, which is achieved from an enhanced recovery project that would not have economically occurred under the reservoir conditions existing before the project and that has been approved by the division as incremental production.

30. The unit, enhanced, and secondary operations for the proposed South Monument Butte Unit qualify as operations of an enhanced recovery project for purposes of Section 59-5-102(4) of the Utah Code Annotated.

31. At both the May 11, 2001 hearing and the May 23, 2001 hearing, Inland made an oral motion for the entry of an order of default against all parties who failed to participate in the formal adjudicative proceeding initiated by Inland’s Request for Agency Action.



## **CONCLUSIONS OF LAW**

32. Due and regular notice of the time, place, and purposes of the May 11, 2001 hearing, and the Board's regularly scheduled May 23, 2001 hearing was given to all interested parties and all owners and operators and surface owners within one-half mile of the proposed unit in the form and manner and within the time required by law and the Rules and Regulations of the Board. Due and regular notice of the filing of the Request for Agency Action was given to all interested parties and all owners and operators and surface owners within one-half mile of the proposed unit in the form and manner and within the time required by law and the Rules and Regulations of the Board.

33. The Board has jurisdiction of the parties and subject matter of this Request for Agency Action, pursuant to Sections 40-6-5, 40-6-7, and 59-5-102 of the Utah Code Annotated and has power and authority to make and promulgate the order herein set forth.

34. Unit, enhanced, and secondary recovery operations in the Green River Formation as contemplated by the Revised South Monument Butte Unit Agreement and Revised South Monument Butte Unit Operating Agreement, as introduced and admitted at the May 11, 2001 hearing, are in the public interest and will promote conservation, will increase ultimate recovery, will prevent waste, and will protect correlative rights.

35. Unit, enhanced, and secondary recovery operations for the proposed South Monument Butte Unit are reasonably necessary to fulfill the purposes of Chapter 6 of Title 40 of the Utah Code Annotated.

36. The plan of development contained in the Revised South Monument Butte Unit Agreement, Revised South Monument Butte Unit Operating Agreement, and Geology and



Engineering Report as contained in Exhibits 1 through 9 and as introduced and admitted at the May 11, 2001 hearing will accomplish the goals of the proposed South Monument Butte Unit.

37. Petitioner's application for approval of the Monument Butte Federal #5-1 Well as a Class II injection well meets all applicable statutory and administrative requirements for the approval of the Monument Butte Federal #5-1 Well as a Class II injection well.

38. Good cause appears to certify the South Monument Butte Unit as an enhanced recovery project for the purposes of Section 59-5-102(4) of the Utah Code Annotated.

39. Inland has complied with the requirements of Section 40-6-8(4) of the Utah Code Annotated.

40. Pursuant to Section 63-46b-11(1)(b) of the Utah Code and U.A.C. Rule R641-104-151.1, the Board may enter an order of default against a party to a formal adjudicative proceeding who fails to attend or participate in a properly scheduled hearing after receiving proper notice. No written objections to Inland's Request for Agency Action were filed with the Board and no one appeared at either the May 11, 2001 Designated Hearing Examiner hearing or the Board's regularly scheduled May 23, 2001 hearing in protest of Inland's Request. Accordingly, at the Board's discretion, it is proper to enter an order of default against all parties who received proper notice of Inland's Request for Agency Action and the May 11, 2001 hearing and the Board's regularly scheduled May 23, 2001 hearing, and who did not participate in the Board's formal adjudicative proceedings.

## **ORDER**

IT IS THEREFORE ORDERED that:

1. The Green River Formation, defined as follows:



The subinterval of the Green River Formation as identified by the CNL/FDC log run in the Monument Butte Federal #5-1 Well located in the SW¼NW¼ of Section 1, Township 9 South, Range 16 East, S.L.M., with the top of the subinterval being found at a measured depth of 3,750 feet, a vertical depth of 3,740 feet below the surface, and the base of the subinterval being found at a measured depth of 6,230 feet, a vertical depth of 6,220 feet below the surface, or the stratigraphic equivalent thereof,

underlying the lands collectively named the South Monument Butte Unit Area described as follows:

Township 9 South, Range 16 East, S.L.M.

Section 1: Lots 3 and 4, S½NW¼

Section 2: S½, SW¼NW¼, SE¼NE¼

(containing 560.18 acres, more or less).

constitutes a pool for the operation of the proposed unit and the Board hereby establishes the same as a pool to be operated jointly as a unit for the continued operation of all wells thereon. The lands and pool shall be known as the South Monument Butte Unit Area.

2. The unit hereby established shall be known as the South Monument Butte Unit.

3. The Green River Formation, as defined in paragraph 1 of this Order, constitutes a pool for the operation of a water flood enhanced and secondary recovery project, and the Board hereby establishes the same to be operated as a unit for enhanced and secondary recovery operations.

4. The South Monument Butte Unit Agreement and South Monument Butte Unit Operating Agreement, with attachments, as amended and revised in the form introduced and admitted at the May 11, 2001 hearing as materials in Exhibits 1, 4, 5, 6, and 7 (the "Revised South Monument Butte Unit Agreement" and "Revised South Monument Butte Unit Operating Agreement," respectively) are approved.



5. The plan of development and operations set forth in the Revised South Monument Butte Unit Agreement and the Revised South Monument Butte Unit Operating Agreement, and the Geology & Engineering Report, as revised by Exhibits 8 and 9 and as introduced and admitted at the May 11, 2001 hearing as materials contained in Exhibit 2, is hereby approved.

6. Pursuant to Utah Code Ann. § 40-6-8(4), the Revised South Monument Butte Unit Agreement and Revised South Monument Butte Unit Operating Agreement shall be binding upon all owners of working interests or operating rights and all owners of lessor's royalty and other leasehold burdens as authorized by Utah Code Ann. §§ 40-6-7 and 40-6-8, because more than 70% of those owners have approved in writing the plan for unit operations prescribed by the Division and the Board.

7. Any owner of working interest or operating rights who does not voluntarily commit its interest to the South Monument Butte Unit shall be a "non-consenting owner" and shall be deemed to have contracted with the unit operator for its proportionate part of the cost of developing and operating the Unit Area in accordance with Section 40-6-8(3)(e) of the Utah Code Annotated.

8. The allocation formula described in the Revised South Monument Butte Unit Agreement and the Revised South Monument Butte Unit Operating Agreement is hereby approved.

9. Inland's application for approval of the Monument Butte Federal #5-1 Well as a Class II injection well is approved. The remaining individual injection wells shall be approved by the Division on an administrative basis in accordance with Utah Administrative Code R649-5-2.



10. The South Monument Butte Unit is certified as an enhanced recovery project for purposes of the severance tax rate reduction pursuant to Section 59-5-102(4) of the Utah Code Annotated.

11. State-wide field or well location and siting rules affecting the subject lands and formation are hereby suspended to the extent said orders or rules are inconsistent with this Order.

12. This Order does not waive jurisdiction of the Board over the Underground Injection Control (UIC) program with respect to the injection wells contemplated for the South Monument Butte Unit Area, and expressly directs Inland to comply with all requirements and procedures of the UIC program.

13. The underground injection program proposed by Inland in connection with the enhanced and secondary recovery project is hereby approved.

14. Inland's motion made at both the May 11, 2001 hearing and the May 23, 2001 hearing for entry of an order of default against all parties who received notice of Inland's Request for Agency Action and the two hearings regarding that Request but who failed to participate in the Board's formal adjudicative proceeding is granted.

15. Pursuant to Utah Administrative Code R641 and Utah Code Ann. § 63-46b-6 to -10 (1953, as amended), the Board has considered and decided this matter as a formal adjudication.

16. This Findings of Fact, Conclusion of Law and Order ("Order") is based exclusively on evidence of record in the adjudicative proceeding or on facts officially noted, and constitutes the signed written order stating the Board's decision and the reasons for the decision, all



as required by the Utah Administrative Procedures Act, Utah Code Ann. § 63-46b-10 and Utah Administrative Code R641-109.

17. Notice re Right to Seek Judicial Review by the Utah Supreme Court or to Request Board Reconsideration: As required by Utah Code Ann. § 63-46b-10(e) to -10(g) (1953, as amended), the Board hereby notifies all parties in interest that they have the right to seek judicial review of this final Board Order in this formal adjudication by filing a timely appeal with the Utah Supreme Court within 30 days after the date that this Order is issued. Utah Code Ann. § 63-46b-14(3)(a) and -16 (1953, as amended). As an alternative to seeking immediate judicial review, and not as a prerequisite to seeking judicial review, the Board also hereby notifies parties that they may elect to request that the Board reconsider this Order, which constitutes a final agency action of the Board. Utah Code Ann. § 63-46b-13, entitled, “Agency review - Reconsideration,” states:

(1)(a) Within 20 days after the date that an order is issued for which review by the agency or by a superior agency under Section 63-46b-12 is unavailable, and if the order would otherwise constitute final agency action, any party may file a written request for reconsideration with the agency, stating the specific grounds upon which relief is requested.

(b) Unless otherwise provided by statute, the filing of the request is not a prerequisite for seeking judicial review of the order.

(2) The request for reconsideration shall be filed with the agency and one copy shall be sent by mail to each party by the person making the request.

(3)(a) The agency head, or a person designated for that purpose, shall issue a written order granting the request or denying the request.

(b) If the agency head or the person designated for that purpose does not issue an order within 20 days after the filing of the request, the request for reconsideration shall be considered to be denied.

Id. The Board also hereby notifies the parties that Utah Administrative Code R641-110-100, which is part of a group of Board rules entitled, “Rehearing and Modification of Existing Orders,” states:



Any person affected by a final order or decision of the Board may file a petition for rehearing. Unless otherwise provided, a petition for rehearing must be filed no later than the 10<sup>th</sup> day of the month following the date of signing of the final order or decision for which the rehearing is sought. A copy of such petition will be served on each other party to the proceeding no later than the 15<sup>th</sup> day of that month.

Id. See Utah Administrative Code R641-110-200 for the required contents of a petition for rehearing. If there is any conflict between the deadline in Utah Code Ann § 63-46b-13 (1953, as amended) and the deadline in Utah Administrative Code R641-110-100 for moving to rehear this matter, the Board hereby rules that the later of the two deadlines shall be available to any party moving to rehear this matter. If the Board later denies a timely petition for rehearing, the party may still seek judicial review of the Order by perfecting a timely appeal with the Utah Supreme Court within 30 days thereafter.

18. The Board retains continuing jurisdiction over all the parties and over the subject matter of this Cause, except to the extent said jurisdiction may be divested by the filing of a timely appeal to seek judicial review of this Order by the Utah Supreme Court.

19. For all purposes, the Chairperson's signature on a faxed copy of this Order shall be deemed the equivalent of a signed original.

ISSUED this 8<sup>th</sup> day of June, 2001.

STATE OF UTAH  
BOARD OF OIL, GAS AND MINING

By Elise L. Erler  
Elise L. Erler, Acting Chairperson



143 SOUTH MAIN ST.  
P.O. BOX 45838  
SALT LAKE CITY, UTAH 84145  
FED. TAX I.D.# 87-0217663

# Newspaper Agency Corporation

The Salt Lake Tribune



DESERET NEWS

CUSTOMER'S  
COPY

## PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	DATE
DIV OF OIL-GAS & MINING 1594 W NORTH TEMP #1210 P.O. BOX 145801 SALT LAKE CITY, UT 84114	D5385340L-07	01/09/01

ACCOUNT NAME	
DIV OF OIL-GAS & MINING	
TELEPHONE	INVOICE NUMBER
801-538-5340	TL8200ZNX1
SCHEDULE	
START 01/09/01 END 01/09/01	
CUST. REF. NO.	
UIC-268	
CAPTION	

BEFORE THE DIVISION OF OIL, GA	
SIZE	
56 LINES	2.00 COLUMN
TIMES	RATE
1	1.16
MISC. CHARGES	AD CHARGES
.00	129.92
TOTAL COST	
129.92	

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH

—ooOoo—

IN THE MATTER OF THE APPLICATION : NOTICE OF AGENCY ACTION  
OF INLAND PRODUCTION COMPANY : CAUSE NO. UIC-268  
FOR ADMINISTRATIVE APPROVAL OF :  
THE MONUMENT BUTTE FEDERAL :  
1-1-19-16, MONUMENT BUTTE FEDERAL :  
5-1-19-16 and MONUMENT BUTTE :  
STATE 9-2-9-16 WELLS LOCATED IN :  
SECTIONS 1 and 2, TOWNSHIP 9 :  
SOUTH, RANGE 16 EAST, SALT LAKE, :  
DUCHECNE COUNTY, UTAH, AS A :  
CLASS II INJECTION WELLS :

—ooOoo—

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED  
MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining  
(the "Division") is commencing an informal adjudicative pro-  
ceeding to consider the application of INLAND PRODUCTION  
COMPANY for administrative approval of the MONUMENT BUTTE  
FEDERAL 1-1-19-16, MONUMENT BUTTE FEDERAL 5-1-19-16 and MONU-  
MENT BUTTE STATE 9-2-9-16 wells, located in Sections 1 and 2,  
Township 9 South, Range 16 East, Duchesne County, Utah, for con-  
version to a Class II injection wells. The proceeding will be con-  
ducted in accordance with Utah Admin. R649-10, Administrative  
Procedures.

Selective zones in the GREEN RIVER Formation will be used for  
water injection. The maximum requested injection pressure and  
rate will be determined based on fracture gradient information  
submitted by INLAND PRODUCTION COMPANY.

Any person desiring to object to the application or otherwise  
intervene in the proceeding, must file a written protest or notice  
of intervention with the Division within fifteen days following pub-  
lication of this notice. If such a protest or notice of intervention is  
received, a hearing will be scheduled in accordance with the  
above mentioned administrative procedural rules. Protestants  
and/or interveners should be prepared to demonstrate at the  
hearing how this matter affects their interests.

Dated this 4th day of JANUARY, 2001.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

/s/ John R. Baza  
Associate Director

8200ZNX

JOHANNE MOONEY  
2826 Hartford St.  
Salt Lake City, UT 84106  
My Commission Expires  
April 1, 2004  
STATE OF UTAH

## AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY  
ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GA  
DIV OF OIL-GAS & MINING WAS PUBLISHED BY  
CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET  
PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION  
IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH

PUBLISHED ON START 01/09/01 END 01/09/01

SIGNATURE

DATE 01/09/01

**THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"**  
**PLEASE PAY FROM BILLING STATEMENT.**



# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Craig L. Ashby on oath, say that I am the PUBLISHER of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 9 day of January, 20 01, and that the last publication of such notice was in the issue of such newspaper dated the 9 day of January, 20 01.

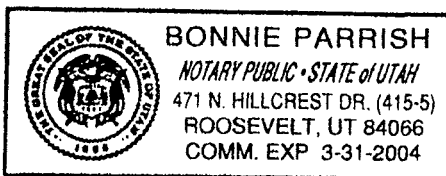
  
Publisher

Subscribed and sworn to before me this

12 day of January, 20 01



Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC-268

IN THE MATTER OF  
THE APPLICATION OF  
INLAND PRODUCTION  
COMPANY FOR AD-  
MINISTRATIVE AP-  
PROVAL OF THE  
MONUMENT BUTTE  
FEDERAL 1-1-9-16,  
MONUMENT BUTTE  
FEDERAL 5-1-19-16 and  
MONUMENT BUTTE  
STATE 9-2-9-16 WELLS  
LOCATED IN SECTIONS  
1 and 2, TOWNSHIP 9  
SOUTH, RANGE 16  
EAST, SALT LAKE,  
DUCHESNE COUNTY,  
UTAH, AS A CLASS II  
INJECTION WELLS

THE STATE OF UTAH  
TO ALL PERSONS IN-  
TERESTED IN THE  
ABOVE ENTITLED  
MATTER.

Notice is hereby given  
that the Division of Oil, Gas  
and Mining (the "Division")  
is commencing an informal  
adjudicative proceeding to  
consider the application of  
INLAND PRODUCTION  
COMPANY for adminis-  
trative approval of the  
MONUMENT BUTTE  
FEDERAL 1-1-9-16,  
MONUMENT BUTTE  
FEDERAL 5-1-19-16 and  
MONUMENT BUTTE  
STATE 9-2-9-16 wells lo-  
cated in Sections 1 and 2,  
Township 9 South, Range  
16 East, Duchesne County,  
Utah, for conversion to a  
Class II injection wells. The  
proceeding will be conducted  
in accordance with Utah  
Admin. R649-10, Adminis-  
trative Procedures.

Selective zones in the  
GREEN RIVER Formation  
will be used for water injec-  
tion. The maximum re-  
quested injection pressure  
and rate will be determined  
based on fracture gradient  
information submitted by  
INLAND PRODUCTION  
COMPANY.

Any person desiring to  
object to the application or  
otherwise intervene in the  
proceeding must file a writ-  
ten motion for notice of in-  
tervention with the Divi-  
sion within the time fol-  
lowing publication of this  
notice. Such a protest or  
notice of intervention is re-



notice. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 4 day of  
JANUARY, 2001.

STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING .

John R. Baza

Associate Director

Published in the Uintah  
Basin Standard January 9,  
2001.



DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM

**PERMIT  
STATEMENT OF BASIS**

**Applicant:** Inland Production Company

**Well:** M.B. Fed. 5-1-9-16

**Location:** 1/9S/16E

**API:** 43-013-30507

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the South Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the State and BLM. The State and the Federal Government are the mineral owners within the area of review. Inland and other various individuals hold the leases in the unit. Inland has provided a list of all surface, mineral and lease holders in the half-mile radius. Inland will be the operator of the South Monument Butte Unit. Inland has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 305 feet and has a cement top at the surface. A 5 ½ inch production casing is set at 6076 feet and has a cement top at 2986'. A cement bond log verifies adequate bond well above the injection zone. A 2 7/8 inch tubing with a packer will be set at 5275 feet. A mechanical integrity test will be run on the well prior to injection. There are 9 producing wells and 1 water injection well in the area of review. All of the wells have adequate casing and cement. No corrective action will be required.

**Ground Water Protection:** According to Technical Publication No. 92 the base of moderately saline water is at a depth of approximately 400 feet. Injection shall be limited to the interval between 4785 feet and 5301 feet in the Green River Formation. Information submitted by Inland indicates that the fracture gradient for the 5-1-9-16 well is .764 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1572 psig. The requested maximum pressure is 1572 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.

APPROVED BY CAUSE No. 213-7.2



**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved this well along with the Greater Boundary Unit on June 8, 2001. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that Administrative approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Brad Hill

Date 06/13/2001





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, UT 84145-0155

<http://www.blm.gov>



IN REPLY REFER TO:

3106

(UT-924)

September 16, 2004

### Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard  
Acting Chief, Branch of  
Fluid Minerals

### Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225  
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114  
Teresa Thompson  
Joe Incardine  
Connie Seare





## Office of the Secretary of State

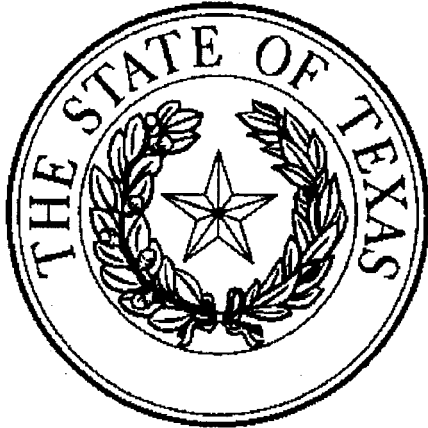
The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company  
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State



ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
INLAND PRODUCTION COMPANY

FILED  
In the Office of the  
Secretary of State of Texas  
SEP 02 2004  
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1<sup>st</sup> day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs  
Susan G. Riggs, Treasurer



UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires January 3, 2006

**COPY**

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
Newfield Production Company

3a. Address Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)  
435.646.3721

4. Location of (Footage, Sec., T., R., M., or Survey Description)  
1984 FNL 0606 FWL  
SW/NW Section 1 T9S R16E

5. Lease Serial No.

UTU72103

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or  
S MON BUTTE UNIT

8. Well Name and No.

MONUMENT BUTTE FED 5-1

9. API Well No.

4301331507

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production(Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Weekly Status Report _____
	<input type="checkbox"/> Convert to	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Subject well had recompletion procedures initiated in the Green River formation on 11/01/04. Existing production equipment was pulled from well. A bit and scraper were run in well. One new Green River interval was perforated and hydraulically fracture treated as follows: Stage #1: GB6 sands @ 4298-4314'(2 JSPF) fraced w/78,348# 20/40 sand in 577 bbls Lightning 17 fluid. Fracs were flowed back through chokes. Sand was cleaned from wellbore. New intervals were swab tested for sand cleanup. BHA & production tbg were run and anchored in well w/tubing anchor @ 5278', pump seating nipple @ 5314', and end of tubing string @ 5347'. A new 1 1/2" bore rod pump was run in well on sucker rods. Well returned to production via rod pump on 11-5-04.

RECEIVED

NOV 10 2004

DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and  
correct (Printed/Typed)  
Renee Palmer

Title

Production Clerk

Signature

Date

11/8/2004

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or  
certify that the applicant holds legal or equitable title to those rights in the subject lease  
which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)



## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Operator Name Change****Merger**

The operator of the well(s) listed below has changed, effective:

**9/1/2004****FROM: (Old Operator):**

N5160-Inland Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**TO: ( New Operator):**

N2695-Newfield Production Company

Route 3 Box 3630

Myton, UT 84052

Phone: 1-(435) 646-3721

**CA No.****Unit:****S MONUMENT BUTTE (GR)****WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
FEDERAL 1-1	01	090S	160E	4301330571	13195	Federal	WI	A
MONUMENT BUTTE FED 6-1	01	090S	160E	4301331506	13195	Federal	OW	P
MON BUTTE FED 5-1	01	090S	160E	4301331507	13195	Federal	OW	P
MONUMENT BUTTE FED 4-1	01	090S	160E	4301331545	13195	Federal	OW	P
MONUMENT BUTTE ST 8-2	02	090S	160E	4301331509	13195	State	OW	P
MONUMENT BUTTE ST 16-2	02	090S	160E	4301331510	13195	State	OW	P
MON BUTTE ST 9-2	02	090S	160E	4301331555	13195	State	WI	A
MONUMENT BUTTE ST 10-2	02	090S	160E	4301331565	13195	State	OW	P
MONUMENT BUTTE ST 15-2-9-16	02	090S	160E	4301331932	13195	State	WI	A
S WELLS DRAW 5-2-9-16	02	090S	160E	4301332124	13195	State	WI	A
S WELLS DRAW 11-2-9-16	02	090S	160E	4301332125	13195	State	WI	A
S WELLS DRAW 12-2-9-16	02	090S	160E	4301332126	13195	State	OW	P
S WELLS DRAW 13-2-9-16	02	090S	160E	4301332127	13195	State	WI	A
S WELLS DRAW 14-2-9-16	02	090S	160E	4301332128	13195	State	OW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/20054. Is the new operator registered in the State of Utah: YES Business Number: 755627-01435. If **NO**, the operator was contacted on:



6a. (R649-9-2) Waste Management Plan has been received on: IN PLACE  
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

#### DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 2/28/2005
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

#### FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

#### INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

#### FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
2. The **FORMER** operator has requested a release of liability from their bond on: n/a\*  
The Division sent response by letter on: n/a

#### LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

#### COMMENTS:

\*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05





March 2, 2010

Mr. Dan Jarvis  
State of Utah  
Division of Oil, Gas and Mining  
Post Office Box 145801  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Monument Butte #5-1-9-16  
Monument Butte Field, Lease #UTU-72103  
Section 1-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Jarvis:

Newfield Production Company herein requests approval to convert the Monument Butte #5-1-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Sundberg". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Eric Sundberg  
Regulatory Analyst

**RECEIVED**

**MAR 16 2010**

**DIV. OF OIL, GAS & MINING**



**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**MONUMENT BUTTE #5-1-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-72103**  
**March 2, 2010**



## TABLE OF CONTENTS

LETTER OF INTENT	
COVER PAGE	
TABLE OF CONTENTS	
UIC FORM 1 – APPLICATION FOR INJECTION WELL	
WELLBORE DIAGRAM OF PROPOSED INJECTION	
WORK PROCEDURE FOR INJECTION CONVERSION	
COMPLETED RULE R615-5-1 QUESTIONNAIRE	
COMPLETED RULE R615-5-2 QUESTIONNAIRE	
ATTACHMENT A	ONE-HALF MILE RADIUS MAP
ATTACHMENT A-1	WELL LOCATION PLAT
ATTACHMENT B	LIST OF SURFACE OWNERS WITHIN ONE-HALF MILE RADIUS
ATTACHMENT C	CERTIFICATION FOR SURFACE OWNER NOTIFICATION
ATTACHMENT E	WELLBORE DIAGRAM – MONUMENT BUTTE #5-1-9-16
ATTACHMENT E-1	WELLBORE DIAGRAM – MONUMENT BUTTE STATE #13-36
ATTACHMENT E-2	WELLBORE DIAGRAM – MONUMENT BUTTE #1A-2-9-16
ATTACHMENT E-3	WELLBORE DIAGRAM – MONUMENT BUTTE FEDERAL #4-1-9-16
ATTACHMENT E-4	WELLBORE DIAGRAM – MONUMENT BUTTE FEDERAL #1-1-9-16
ATTACHMENT E-5	WELLBORE DIAGRAM – MONUMENT BUTTE STATE #1-2-9-16
ATTACHMENT E-6	WELLBORE DIAGRAM – MONUMENT BUTTE STATE #8-2-9-16
ATTACHMENT E-7	WELLBORE DIAGRAM – MONUMENT BUTTE FEDERAL #6-1-9-16
ATTACHMENT E-8	WELLBORE DIAGRAM – MONUMENT BUTTE STATE #9-2
ATTACHMENT E-9	WELLBORE DIAGRAM – FEDERAL #1-13-9-16
ATTACHMENT E-10	WELLBORE DIAGRAM – FEDERAL #1-23-9-16
ATTACHMENT E-11	WELLBORE DIAGRAM – MONUMENT BUTTE FEDERAL #1-14
ATTACHMENT E-12	WELLBORE DIAGRAM – MONUMENT FEDERAL #32-1J-9-16
ATTACHMENT E-13	WELLBORE DIAGRAM – SOUTH MONUMENT BUTTE #G-1-9-16
ATTACHMENT F	WATER ANALYSIS
ATTACHMENT G	FRACTURE GRADIENT CALCULATIONS
ATTACHMENT G-1	FRACTURE REPORTS DATED 11/9/95-11/19/95
ATTACHMENT H	WORK PROCEDURE FOR PROPOSED PLUG AND ABANDON
ATTACHMENT H-1	WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Newfield Production Company  
ADDRESS 1001 17th Street, Suite 2000  
Denver, Colorado 80202

Well Name and number: Monument Butte #5-1-9-16  
Field or Unit name: Monument Butte (Green River) Lease No. UTU-72103  
Well Location: QQ SWNW section 1 township 9S range 16E county Duchesne

Is this application for expansion of an existing project? ..... Yes ☒ No ☐

Will the proposed well be used for: Enhanced Recovery? ..... Yes ☒ No ☐  
Disposal? ..... Yes ☐ No ☒  
Storage? ..... Yes ☐ No ☒

Is this application for a new well to be drilled? ..... Yes ☐ No ☒

If this application is for an existing well,  
has a casing test been performed on the well? ..... Yes ☐ No ☒

Date of test: \_\_\_\_\_

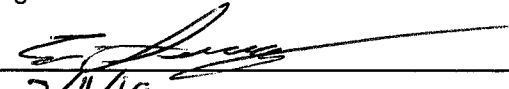
API number: 43-013-31507

Proposed injection interval: from 4072 to 6087  
Proposed maximum injection: rate 500 bpd pressure 2003 psig  
Proposed injection zone contains [x] oil, [ ] gas, and/or [ ] fresh water within 1/2  
mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should  
accompany this form.

List of Attachments: Attachments "A" through "H-1"

I certify that this report is true and complete to the best of my knowledge.

Name: Eric Sundberg Signature   
Title Regulatory Analyst Date 3/11/10  
Phone No. (303) 893-0102

(State use only)

Application approved by \_\_\_\_\_ Title \_\_\_\_\_

Approval Date \_\_\_\_\_

Comments:



# Monument Butte #5-1-9-16

Initial Production: 135 BOPD, 120 MCFD  
55 BWPD

Spud Date: 7/24/95  
Put on Production: 11/20/95  
GL: 5428' KB: 5441'

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (299.64)  
DEPTH LANDED: 296.99'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sx Premium 250

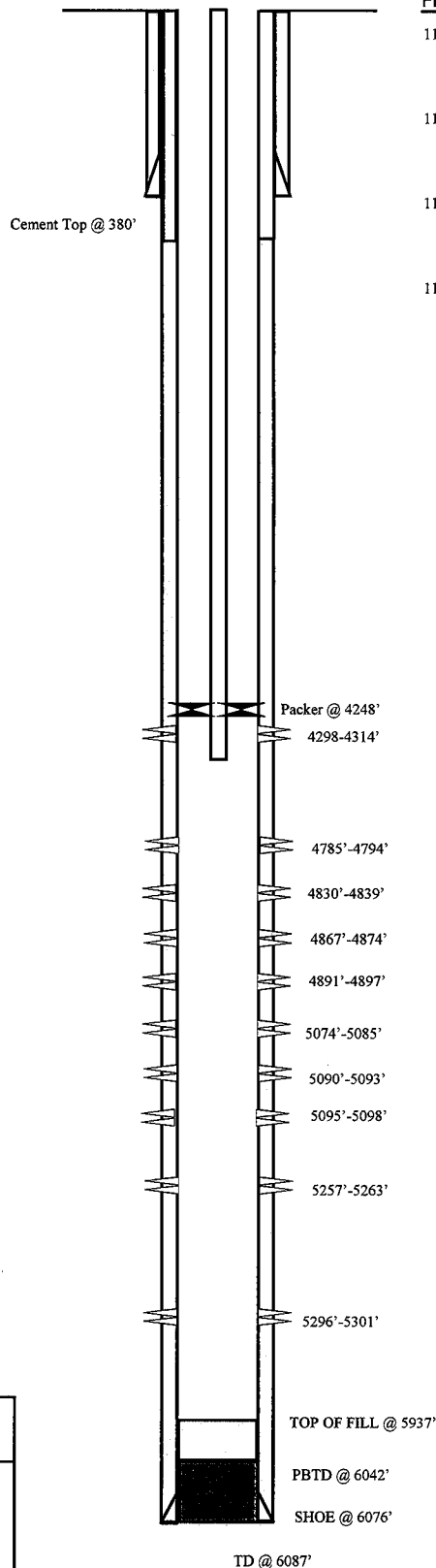
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 141 jts (6088')  
SET AT: 6076'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 255 sx HiFill & 325 sx Thixotropic.  
CEMENT TOP AT: 380' from CBL

## TUBING

SIZE/GRADE/WT: 2-7/8", J-55, 6.5#  
NO. OF JOINTS: 160 jts (4907.91')  
NO. OF JOINTS: 11 jts (357.38')  
TUBING ANCHOR: 5278.29' KB  
NO. OF JOINTS: 1 (33.38')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5314.47' KB  
NO. OF JOINTS: 1 jt (30.78')

## Proposed Injection Wellbore Diagram



## FRAC JOB

11/11/95	5257'-5301'	86,800# 20/40 sand in 652 bbls frac fluid. Avg TP 2000 psi w/avg rate of 37.5 BPM. ISIP-2040 psi. Calc flush: 5257 gal. Act flush: 5213 gal.
11/14/95	5074'-5098'	89,500# 20/40 sand in 590 bbls frac fluid. Avg TP 1800 psi w/avg rate of 35 BPM. ISIP-2036 psi. Calc flush: 5074 gal. Act flush: 5031 gal.
11/16/95	4785'-4897'	110,000# 20/40 sand in 774 bbls frac fluid. Avg TP 1647 psi w/avg rate of 36 BPM. ISIP-2400 psi. Calc flush: 4785 gal. Act flush: 4721 gal.
11/03/04	4298'-4314'	<b>Frac GB6 sands as follows:</b> 78,348# 20/40 sand in 577 bbls Lightning 17 frac fluid. Treated @ Avg press. of 1875 psi w/avg rate of 24.9 BPM. ISIP-2200 psi. Calc flush: 4296 gal. Act flush: 4087 gal.

## PERFORATION RECORD

11/10/95	5257'-5295'	4 JSPF	24 holes
11/10/95	5296'-5301'	4 JSPF	20 holes
11/12/95	5074'-5085'	4 JSPF	44 holes
11/12/95	5090'-5093'	4 JSPF	12 holes
11/12/95	5095'-5098'	4 JSPF	12 holes
11/15/95	4785'-4794'	4 JSPF	36 holes
11/15/95	4830'-4839'	4 JSPF	36 holes
11/15/95	4867'-4874'	4 JSPF	28 holes
11/15/95	4891'-4897'	4 JSPF	24 holes
11/02/04	4298'-4314'	2 JSPF	32 holes

**NEWFIELD**

## Monument Butte #5-1-9-16

1984 FNL & 666 FWL  
SW/NW Section 1-T9S-R16E  
Duchesne Co, Utah  
API #43-013-31507; Lease #UTU-72103



## **WORK PROCEDURE FOR INJECTION CONVERSION**

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.



**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

**2.1 The name and address of the operator of the project.**

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202

**2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.

**2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Monument Butte #5-1-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

**2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

**2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. For the Monument Butte #5-1-9-16 well, the proposed injection zone is from Garden Gulch to TD (4072' - 6087'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, whichever is shallower. The Garden Gulch Marker top is at 3747' and the TD is at 6087'.

**2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Monument Butte #5-1-9-16 is on file with the Utah Division of Oil, Gas and Mining.



- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal Lease (Lease #UTU-72103) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.



**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**
  - 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.
  - 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.
  - 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.
  - 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.
  - 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 297' KB, and 5-1/2", 15.5# casing run from surface to 6076' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.
  - 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.
  - 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.



**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 2003 psig.

**2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Monument Butte #5-1-9-16, for existing perforations (4298' - 5301') calculates at 0.83 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 2003 psig. We may add additional perforations between 3747' and 6087'. See Attachments G and G-1.

**2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Monument Butte #5-1-9-16, the proposed injection zone (4072' - 6087') is in the Garden Gulch to Basal Carbonate of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

**2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-13.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

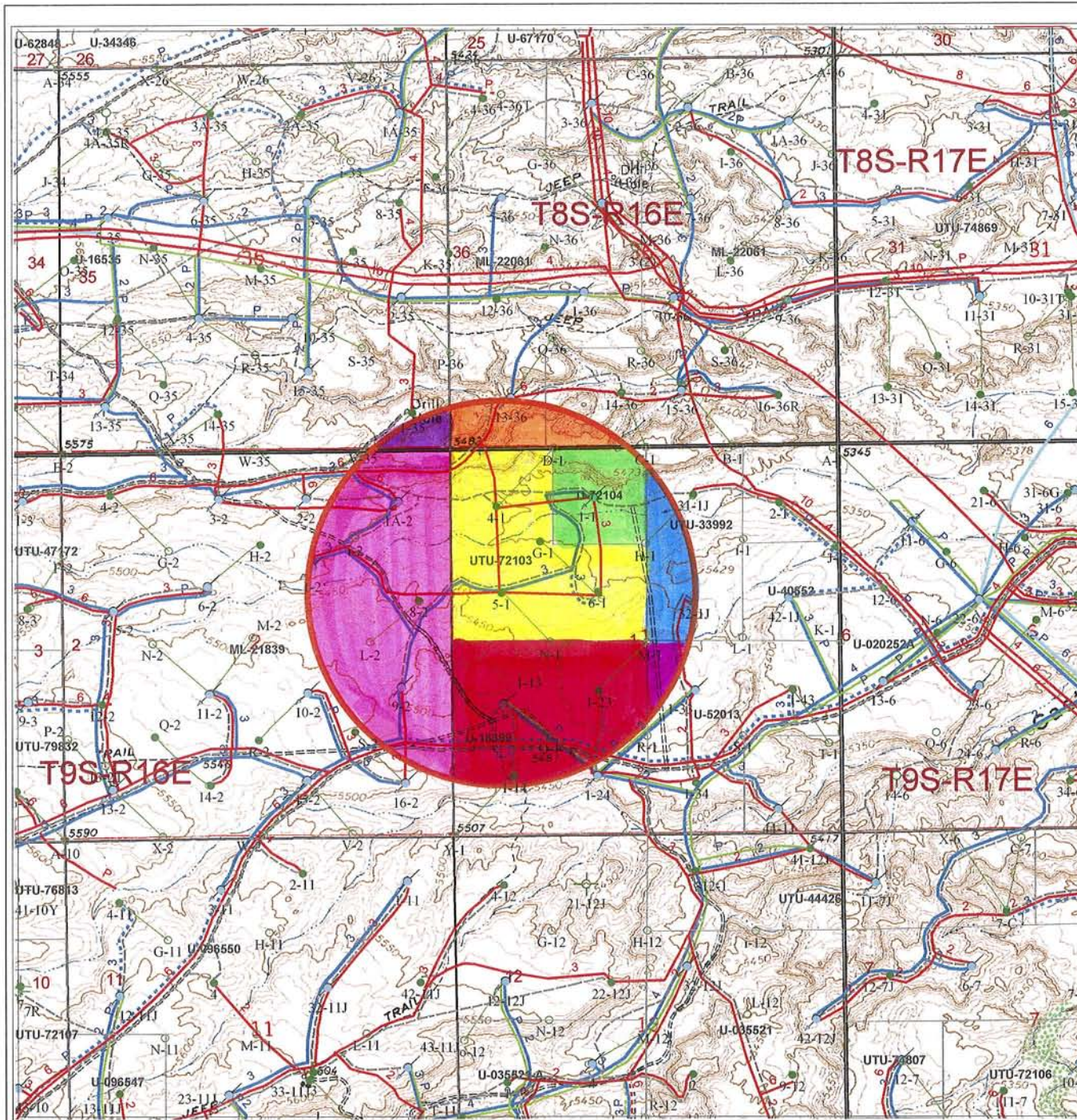
**2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

**2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Newfield Production Company will supply any requested information to the Board or Division.





**Well Status**

- Location
- ⊙ CTI
- ⊙ Surface Spud
- ⊙ Drilling
- ⊙ Waiting on Completion
- ⊙ Producing Oil Well
- ⊙ Producing Gas Well
- ⊙ Water Injection Well
- ⊙ Dry Hole
- ⊙ Temporarily Abandoned
- ⊙ Plugged & Abandoned
- ⊙ Shut In

**Injection system**

- high pressure
- low pressure
- proposed
- return
- return proposed

**Leases**

- Leases
- Mining tracts

**Gas Pipelines**

- Gathering lines
- Proposed lines
- 5-1-9-16 1/2mile radius

- UTU-72103
- UTU-33992
- U-72104
- ML-22041
- U-10535
- ML-21839
- U-18399
- U-52013

Attachment A

Monument Butte Fed 5-1  
Section 1, T9S-R16E

**NEWFIELD**  
ROCKY MOUNTAINS

1" = 2000'

**1/2 Mile Radius Map**  
Duchesne & Uintah Counties

1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone: (303) 893-0102

December 21, 2009



**T9S, R16E, S.L.B.&M.**

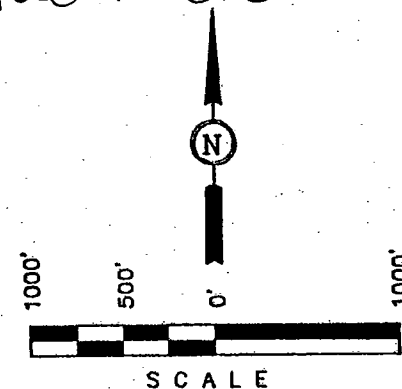
**LOMAX EXPLORATION CO.**

Well location, MONUMENT BUTTE #5-1  
located as shown in the SE 1/4 NW 1/4  
of Section 1, T9S, R16E, S.L.B.&M.  
Duchesne County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE NORTHWEST CORNER OF SECTION  
1, T9S, R16E, S.L.B.&M. TAKEN FROM THE MYTON SE  
QUADRANGLE, DUCHESNE COUNTY, 7.5 MINUTE QUAD.  
(TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES  
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY.  
SAID ELEVATION IS MARKED AS BEING 5482 FEET.

*Attachment A-1*



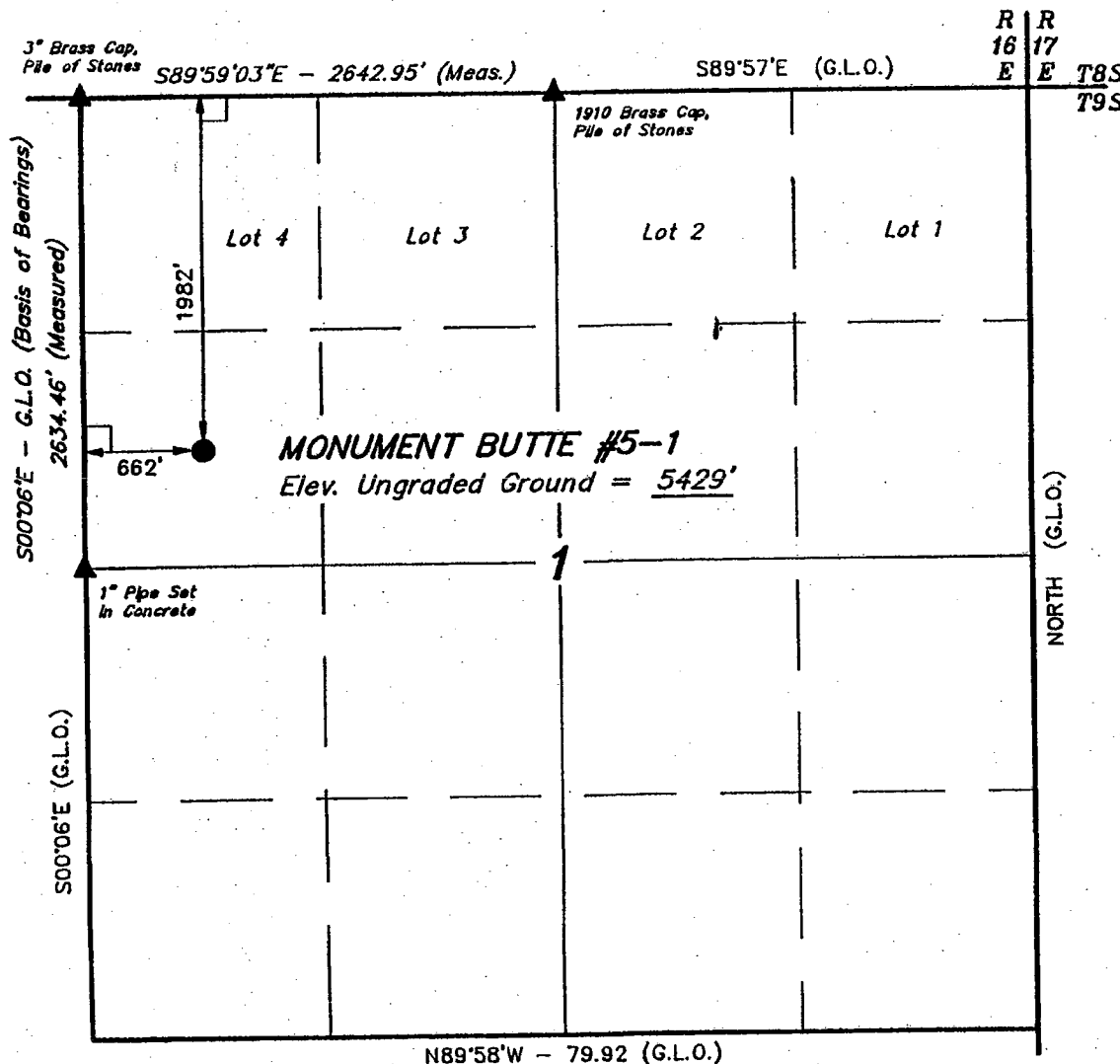
**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UNTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 1-27-95	DATE DRAWN: 2-3-95
PARTY J.K. N.H. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE LOMAX EXPLORATION CO	



**LEGEND:**

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.



## EXHIBIT B

Page 1

1 of 7

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
1.	<u>Township 9 South, Range 16 East</u> Section 1: Lot 4, S2NW	UTU-72103 HBP	Newfield Production Company 1001 17 <sup>th</sup> St. Suite 2000 Denver, CO 80202 Davis Brothers Davis Resources 110 W 7 <sup>th</sup> St Suite 1000 Tulsa, OK 74119	(Surface Rights) USA
2.	<u>Township 9 South, Range 16 East</u> Section 1: Lots 1,2, SWNE	UTU-33992 HBP	Newfield Production Company 1001 17 <sup>th</sup> St. Suite 2000 Denver, CO 80202 Tucker Family Investments 12741 E Caley, Suite 142 Englewood, CO 80111	(Surface Rights) USA



## EXHIBIT B

Page 2

2 of 7

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
3.	<u>Township 9 South, Range 16 East</u> Section 1: Lot 3	U-72104 HBP	Newfield Production Company 1001 17 <sup>th</sup> St. Suite 2000 Denver, CO 80202 King Oil & Gas of Texas, LTD. c/o Allen C. King 800 Bering Dr. Houston, TX 77057 Jasper Warren 17350 State Hwy 249 Suite 140 Houston, TX 77064-1140	(Surface Rights) USA
4.	<u>Township 8 South, Range 16 East</u> Section 36: All	ML-22061 HBP	Newfield Production Company 1001 17 <sup>th</sup> St. Suite 2000 Denver, CO 80202 Davis Brothers LLC Davis Resources 320 S. Boston #1000 Tulsa, OK 74103-3703	(Surface Rights) STATE



## EXHIBIT B

Page 3

3 of 7

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
5.	<u>Township 8 South, Range 16 East</u> Section 34: NE, N2SE, SESE Section 35: ALL	U-16535 HBP	Newfield Production Company Newfield RMI, LLC 1001 17 <sup>th</sup> St. Suite 2000 Denver, CO 80202 AGK Energy LLC 38 Nonohe Pl Paia, HI 96779 Marian Brennan Raymond Brennan 104 Lee Lane. Bellevue, TX 77418 Davis Brothers Davis Resources 110 West 7 <sup>th</sup> St. Suite 100 Tulsa, OK 74119 Deer Valley LTD 800 Bering Dr. #305 Houston, TX 77057	(Surface Rights) USA



EXHIBIT B

Page 4

4 of 7

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
			International Drilling Company Texas General Offshore 7710 T Cherry Parl PMB 503 Houston, TX 77095 Thomas Jackson 7710 T Cherry Parl PMB 503 Houston, TX 77095 Whitehall Energy Corp 104 Lee Lane Bellville, TX 77418 Beverly Sommer 1025 North Crescent Drive Beverly Hills, CA 90210 Jasper Warren 17350 State Highway 249 Suite 140 Houston, TX 77064-1140	



## EXHIBIT B

Page 5

5 of 7

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
6.	<u>Township 9 South, Range 16 East</u> Section 2: Lots 1-4, S2N2, S2	ML-21839 HBP	Newfield Production Company 1001 17 <sup>th</sup> St. Suite 2000 Denver, CO 80202 Davis Brothers Davis Resources 320 S. Boston #1000 Tulsa, OK 74103-3703 AGK Energy LLC 38 Nonohe Pl Paia, HI 96779 Marian Brennan Raymond Brennan 104 Lee Lane Bellville, TX 77418 Deer Valley, LTD 800 Bering Drive, Suite 305 Houston, TX 77057 International Drilling Services 7710 T Cherry Park PMB 503 Houston, TX 77095 Thomas Jackson	(Surface Rights) STATE



## EXHIBIT B

Page 6

leaf 7

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
			7710 T Cherry Park PMB 503 Houston, TX 77095 Beverly Sommer 1025 North Crescent Drive Beverly Hills, CA 90210 Texas General Offshore, Inc 7710 T Cherry Park PMB 503 Houston, TX 77095 Jasper Warren 17350 St Hwy 249 Suite 140 Houston, TX 77064-1140	
7.	<u>Township 9 South, Range 16 East</u> Section 1: SW	U-18399 HBP	Newfield Production Company Newfield RMI, LLC 1001 17 <sup>th</sup> St. Suite 2000 Denver, CO 80202	(Surface Rights) USA



EXHIBIT B

Page 7

707

#	Land Description	Minerals Ownership & Expires	Minerals Leased By	Surface Rights
8.	<u>Township 9 South, Range 16 East</u> Section 1: N2SE, SWSE	U-52013 HBP	Newfield Production Company 1001 17 <sup>th</sup> St. Suite 2000 Denver, CO 80202	(Surface Rights) USA




ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Monument Butte #5-1-9-16

I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed:   
Newfield Production Company  
Eric Sundberg  
Regulatory Analyst

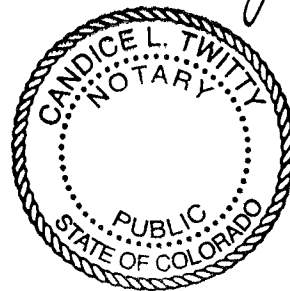
Sworn to and subscribed before me this 11<sup>th</sup> day of March, 2010.

Notary Public in and for the State of Colorado:



My Commission Expires  
02/10/2013

My Commission Expires: \_\_\_\_\_





## Monument Butte #5-1-9-16

Initial Production: 135 BOPD, 120 MCFD  
55 BWPD

Spud Date: 7/24/95  
Put on Production: 11/20/95  
GL: 5428' KB: 5441'

### Wellbore Diagram

#### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (299.64)  
DEPTH LANDED: 296.99'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sx Premium 250

#### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 141 jts (6088')  
SET AT: 6076'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 255 sx HiFill & 325 sx Thixotropic.  
CEMENT TOP AT: 380' from CBL

#### TUBING

SIZE/GRADE/WT: 2-7/8", J-55, 6.5#  
NO. OF JOINTS: 160 jts (4907.91')  
NO. OF JOINTS: 11 jts (357.38')  
TUBING ANCHOR: 5278.29' KB  
NO. OF JOINTS: 1 (33.38')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5314.47' KB  
NO. OF JOINTS: 1 jt (30.78')  
TOTAL STRING LENGTH: EOT @ 5346.80' W/ 13' KB

#### SUCKER RODS

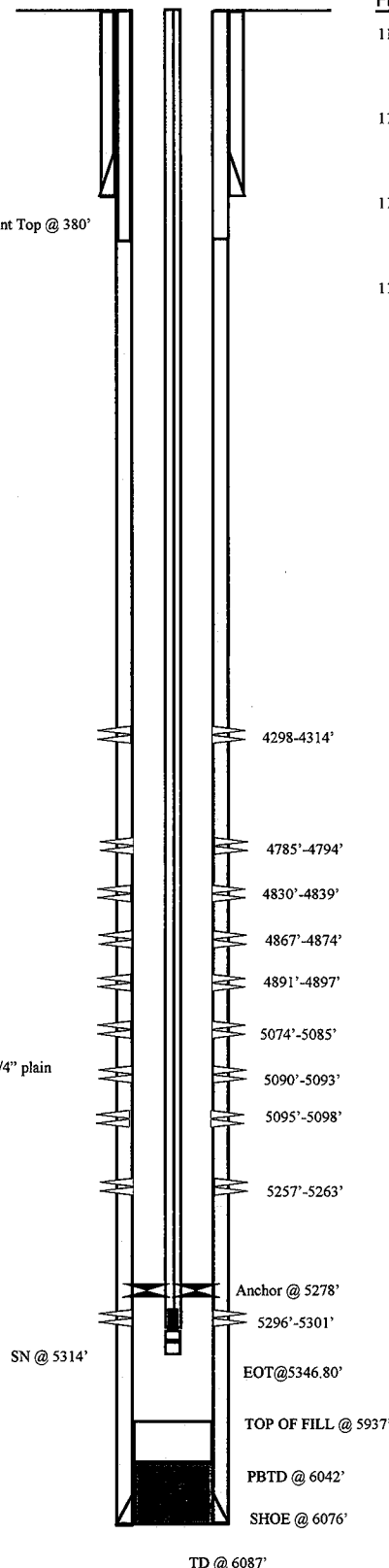
POLISHED ROD: 1-1/2"x22'  
SUCKER RODS: 5-1 1/2" weight bars, 19 3/4" scraped rods, 90-3/4" plain rods, 98- 3/4" scraped rods, 1-6", 1-2"x 3/4" pony rods.  
PUMP SIZE: 2-1/2"x1-1/2"x16" RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 4  
LOGS:

#### FRAC JOB

11/11/95 5257'-5301' 86,800# 20/40 sand in 652 bbls frac fluid.  
Avg TP 2000 psi w/avg rate of 37.5 BPM.  
ISIP-2040 psi. Calc flush: 5257 gal. Act flush: 5213 gal.  
11/14/95 5074-5098' 89,500# 20/40 sand in 590 bbls frac fluid.  
Avg TP 1800 psi w/avg rate of 35 BPM.  
ISIP-2036 psi. Calc flush: 5074 gal. Act flush: 5031 gal.  
11/16/95 4785-4897' 110,000# 20/40 sand in 774 bbls frac fluid.  
Avg TP 1647 psi w/avg rate of 36 BPM.  
ISIP-2400 psi. Calc flush: 4785 gal. Act flush: 4721 gal.  
11/03/04 4298-4314' **Frac GB6 sands as follows:**  
78,348# 20/40 sand in 577 bbls Lightning 17 frac fluid. Treated @ Avg press. of 1875 psi w/avg rate of 24.9 BPM. ISIP-2200 psi. Calc flush: 4296 gal. Act flush: 4087 gal.

#### PERFORATION RECORD

11/10/95	5257'-5295'	4 JSPF	24 holes
11/10/95	5296'-5301'	4 JSPF	20 holes
11/12/95	5074'-5085'	4 JSPF	44 holes
11/12/95	5090'-5093'	4 JSPF	12 holes
11/12/95	5095'-5098'	4 JSPF	12 holes
11/15/95	4785'-4794'	4 JSPF	36 holes
11/15/95	4830'-4839'	4 JSPF	36 holes
11/15/95	4867'-4874'	4 JSPF	28 holes
11/15/95	4891'-4897'	4 JSPF	24 holes
11/02/04	4298-4314'	2 JSPF	32 holes



**NEWFIELD**

**Monument Butte #5-1-9-16**

1984 FNL & 666 FWL

SW/NW Section 1-T9S-R16W

Duchesne Co, Utah

API #43-013-31507; Lease #UTU-72103



SPUD DATE: 12/19/82  
Put on Production: 1/28/83  
Put on Injection: 2/22/00  
GL: 5396' KB: 5408'

## Monument Butte State #13-36

IP: 71 BOPD; 0 MCFD; 0 BWD

### SURFACE CASING:

CSG SIZE: 8 5/8"  
WEIGHT: 23#  
DEPTH LANDED: 281'  
HOLE SIZE: 12 1/2"  
CEMENT DATA: 210 sx Class "G" plus 2%  
CaCl and 1/4#/sx flakes to sfc.

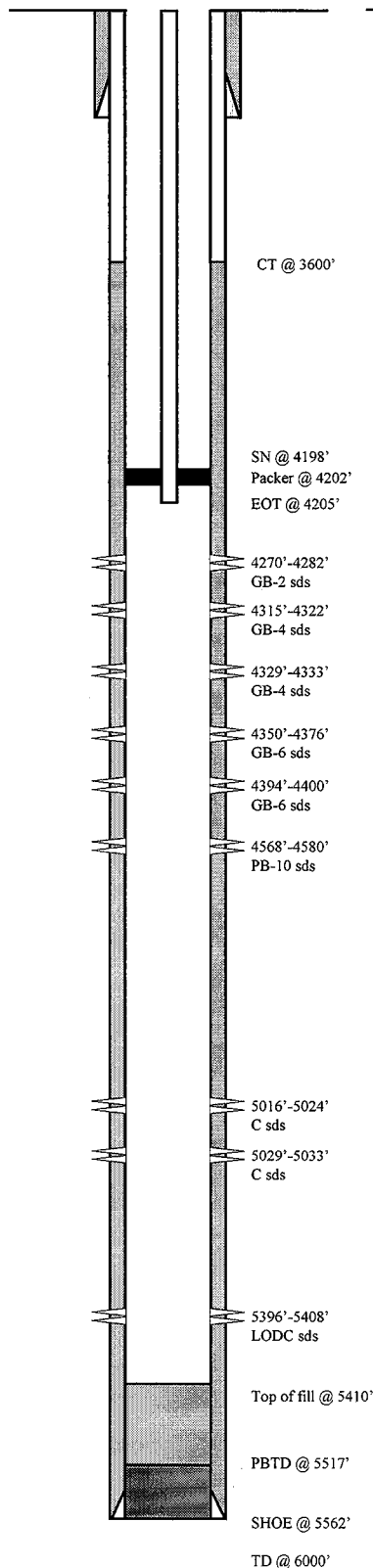
### PRODUCTION CASING

SIZE: 5 1/2"  
GRADE: K-55  
WEIGHT: 17#  
LENGTH: 127 jts 5562'  
HOLE SIZE: 7 7/8"  
CEMENT DATA: 280 sx Gypseal cement  
CEMENT TOP @ 3600'

### TUBING:

SIZE/GRADE/WT: 2 7/8" / J-55 / 6.5#  
NO. OF JOINTS: 129 jts (4184.59')  
SEATING NIPPLE: 2 7/8" (1.10')  
SN LANDED AT: 4197.69' KB  
PACKER: 4202' KB  
EOT @ 4205.00' KB

### Injection Wellbore Diagram



### FRAC JOBS

Date	Wellbore	Fracture Job Details
1/08/83	5396'-5408'	<b>Frac LODC sands as follows:</b> 62,000# 20/40 sand in 488 bbls frac fluid. Treated @ avg press of 2950 psi w/avg rate of 29 BPM. ISIP 2140 psi. Calc. flush: 5396 gal. Actual flush: 5334 gal.
1/13/83	5396'-5408'	<b>FracC sands as follows:</b> 18,040# 20/40 sand in 365 bbls frac fluid. Treated @ avg press of 2300 psi w/avg rate of 40 BPM. ISIP 4500 psi. Screened out.
9/08/84	4350'-4376'	<b>Frac GB6 sands as follows:</b> 107,000# 20/40 sand + 24,000# 10/20 sand in 881 bbls gelled 5% KCl. Treated @ avg press of 1800 psi w/avg rate of 22 BPM. ISIP 2080 psi. Calc. flush: 4350 gal. Actual flush: 4500 gal.
09/29/03		Add new perforations to Inj. Well.
8/26/08		<b>5 Year MIT completed and submitted.</b>

### PERFORATION RECORD:

Date	Wellbore	Perforation Details
1-08-83	5396'-5408'	1 SPF 13 holes
1-13-83	5016'-5024'	1 SPF 8 holes
1-13-83	5029'-5033'	1 SPF 4 holes
9-07-84	4350'-4376'	1 SPF 27 holes
09/26/03	4568'-4580'	4 JSPF 48 holes
09/26/03	4394'-4400'	4 JSPF 24 holes
09/26/03	4329'-4333'	4 JSPF 16 holes
09/26/03	4315'-4322'	4 JSPF 28 holes
09/26/03	4270'-4282'	4 JSPF 48 holes



**Monument Butte State #13-36**  
818 FWL & 697 FSL  
SWSW Section 36-T8S-R16E  
Duchesne Co, Utah  
API #43-013-30623; Lease #U-22061



## Monument Butte 1A-2-9-16

Spud Date: 08/16/2002  
Put on Production: 9/21/02  
GL: 5440' KB: 5450'

Initial Production: BOPD,  
MCFD, BWPD

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (293')  
DEPTH LANDED: 301' KB  
HOLE SIZE: 12 1/4"  
CEMENT DATA: 145 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

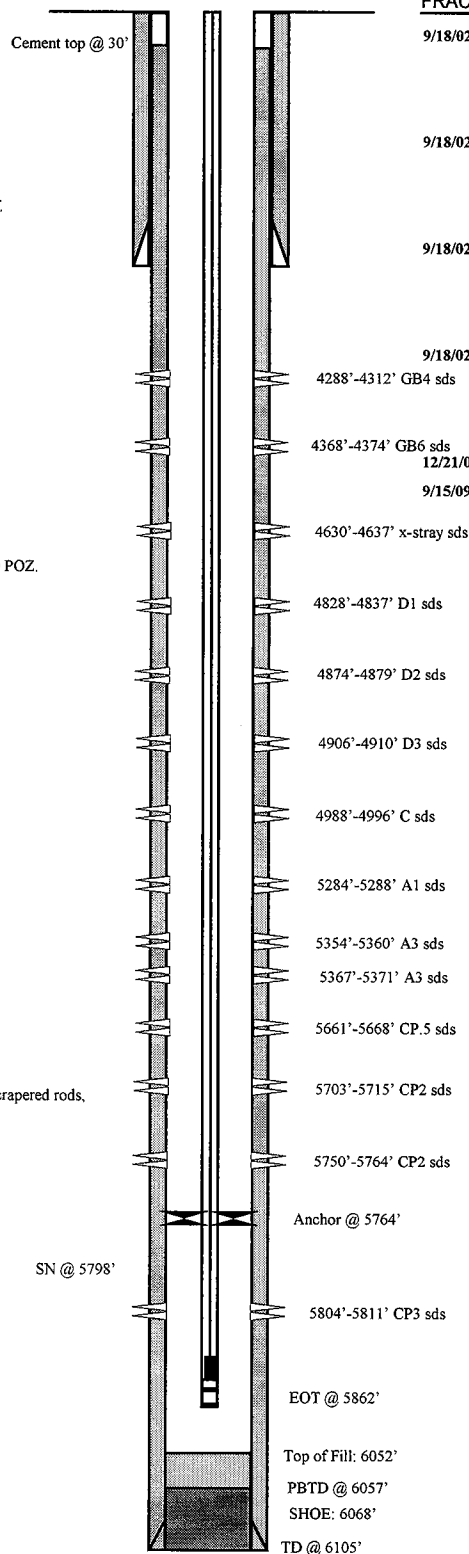
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 136 jts. (6070')  
DEPTH LANDED: 6068' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 30'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 183 jts (5754')  
TUBING ANCHOR: 5764' KB  
NO. OF JOINTS: 1 jts (31')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5798' KB  
NO. OF JOINTS: 2 jts (63')  
TOTAL STRING LENGTH: EOT @ 5862' W/10' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 1-8", 1-6", 1-2' x 3/4" pony rods, 100-3/4" scraped rods, 115-3/4" plain rods, 10-3/4" scraped rods, 6-1 1/2" weight bars.  
PUMP SIZE: 2-1/2" x 1-1/2" x 15.5' RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 4 SPM  
LOGS: DIGL/SP/GR/CAL

Injection  
Wellbore DiagramFRAC JOB

9/18/02 5661'-5811' Frac CP.5,2,3 sands as follows:  
60,000# 20/40 sand in 260 bbls Viking I-25 fluid. Treated @ avg press of 1475 psi w/avg rate of 25.6 BPM. ISIP 1920 psi. Calc flush: 5661 gal. Actual flush: 5565 gal.

9/18/02 5284'-5371' Frac A 1,3, sands as follows:  
6000# 20/40 sand in 258 bbls Viking I-25 fluid. Treated @ avg press of 1850 psi w/avg rate of 25.7 BPM. ISIP 2080 psi. Calc flush: 5284 gal. Actual flush: 5208 gal.

9/18/02 4828'-4996' Frac C/D sands as follows:  
75,000# 20/40 sand in 337 bbls Viking I-25 fluid. Treated @ avg press of 1835 psi w/avg rate of 25.9 BPM. ISIP 2090 psi. Calc flush: 4828 gal. Actual flush: 4746 gal.

9/18/02 4288'-4637' Frac X/GB 4,6 sands as follows:  
96,480# 20/40 sand in 391 bbls Viking I-25 fluid. Treated @ avg press of 1685 psi w/avg rate of 25.7 BPM. ISIP 1980 psi. Calc flush: 4288 gal. Actual flush: 4200 gal.

Put on Injection  
5 Year MIT completed and submitted

PERFORATION RECORD

Date	Depth Range	Tool Joint	Holes
9/18/02	5804'-5811'	4 JSPF	28 holes
9/18/02	5750'-5754'	4 JSPF	16 holes
9/18/02	5703'-5715'	4 JSPF	48 holes
9/18/02	5661'-5668'	4 JSPF	28 holes
9/18/02	5367'-5371'	4 JSPF	16 holes
9/18/02	5354'-5360'	4 JSPF	24 holes
9/18/02	5284'-5288'	4 JSPF	16 holes
9/18/02	4988'-4996'	4 JSPF	32 holes
9/18/02	4906'-4910'	4 JSPF	16 holes
9/18/02	4874'-4879'	4 JSPF	20 holes
9/18/02	4828'-4837'	4 JSPF	36 holes
9/18/02	4630'-4637'	4 JSPF	28 holes
9/18/02	4368'-4374'	4 JSPF	24 holes
9/18/02	4288'-4312'	2 JSPF	48 holes



**Monument Butte #1A-2-9-16**  
714' FNL & 728' FEL  
NE/NE Section 2-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32313; Lease #ML-21839



## Monument Butte Federal #4-1-9-16

Spud Date: 9/8/1995  
 Put on Production: 11/17/1995  
 GL: 5407' KB: 5420'

Initial Production: 41 BOPD,  
 44 MCFD, 7 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (305.57')  
 DEPTH LANDED: 303.87'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 150 sxs Premium Cement + additives.

PRODUCTION CASING

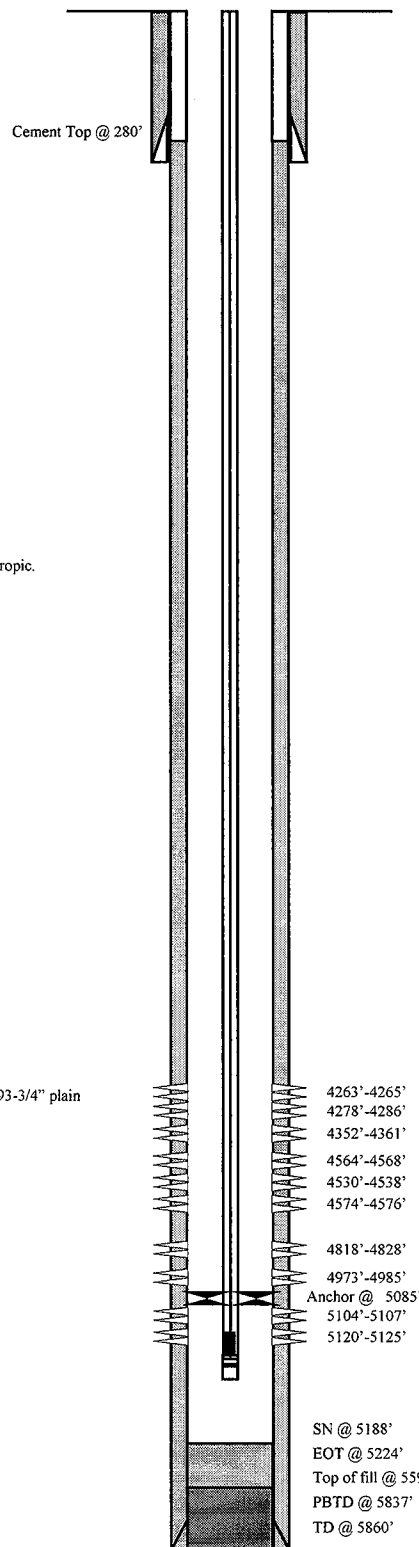
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts. (5882.85')  
 DEPTH LANDED: 5865.57'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 275 sxs HiFill Standard & 300 sxs Thixotropic.  
 CEMENT TOP AT: 280' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 154 jts (5072.77')  
 TUBING ANCHOR: 5085.77' KB  
 NO. OF JOINTS: 3 jts (100.32')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5188.89' KB  
 NO. OF JOINTS: 1 jt. (33.67')  
 TOTAL STRING LENGTH: EOT @ 5224.06' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 6- 1 1/2" weight bars, 10-3/4" scraper rods, 93-3/4" plain rods, 98- 3/4" scraper rods, 1-4', x 3/4" pony rod.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
 STROKE LENGTH: 74"  
 PUMP SPEED, SPM: 3 SPM  
 LOGS: DIGL/SP/GR/CAL

FRAC JOB

11/11/95	4973'-4985'	<b>Frac C sand as follows:</b> 38,000# 16/30 sand in 370 bbls fluid. Treated @ avg press of 3000 psi w/avg rate of 33.5 BPM. Screened out.
11/14/95	4818'-4828'	<b>Frac D sand as follows:</b> 54,900# 20/40 sand in 479 bbls Boragel fluid. Treated @ avg press of 2150 psi w/avg rate of 28.6 BPM. ISIP 2176 psi. Flowed for 5 hrs then died.
6/20/02	5104'-5125'	<b>Frac B2 sand as follows:</b> 26,500# 20/40 sand in 290 bbls Viking I-25 frac fluid. Treated @ avg press of 3580 psi w/avg rate of 15.7 BPM. ISIP 2150 psi. Calc. Flush: 1280 gal. Actual flush: 1176 gal.
6/20/02	4530'-4576'	<b>Frac PB10, 11 sands as follows:</b> 31,743# 20/40 sand in 363 bbls Viking I-25 frac fluid. Treated @ avg press of 2350 psi w/avg rate of 25 BPM. ISIP 2520 psi. Calc. Flush: 4564 gal. Actual flush: 4410 gal.
6/21/02	4263'-4361'	<b>Frac GB4, 6 sands as follows:</b> 51,877# 20/40 sand in 441 bbls Viking I-25 frac fluid. Treated @ avg press of 2350 psi w/avg rate of 25.7 BPM. ISIP 2300 psi. Calc. Flush: 4263 gal. Actual flush: 4158 gal.

PERFORATION RECORD

11/10/95	4973'-4985'	4 JSPF	52 holes
11/14/95	4818'-4828'	4 JSPF	44 holes
6/19/02	5120'-5125'	4 JSPF	20 holes
6/19/02	5104'-5107'	4 JSPF	12 holes
6/19/02	4574'-4576'	4 JSPF	08 holes
6/19/02	4530'-4538'	4 JSPF	32 holes
6/19/02	4564'-4568'	4 JSPF	16 holes
6/20/02	4352'-4361'	4 JSPF	36 holes
6/20/02	4278'-4286'	4 JSPF	32 holes
6/20/02	4263'-4265'	4 JSPF	08 holes



Monument Butte Fed. #4-1-9-16

799' FNL & 608' FWL

NW/NW Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-31545; Lease #UTU-72103



## Monument Butte Fed. #1-1-9-16

Spud Date: 4/30/1981  
Put on Production: 8/6/1981  
GL: 5387' KB: 5397'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 288.50'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 230 sxs Class "G" cmt.

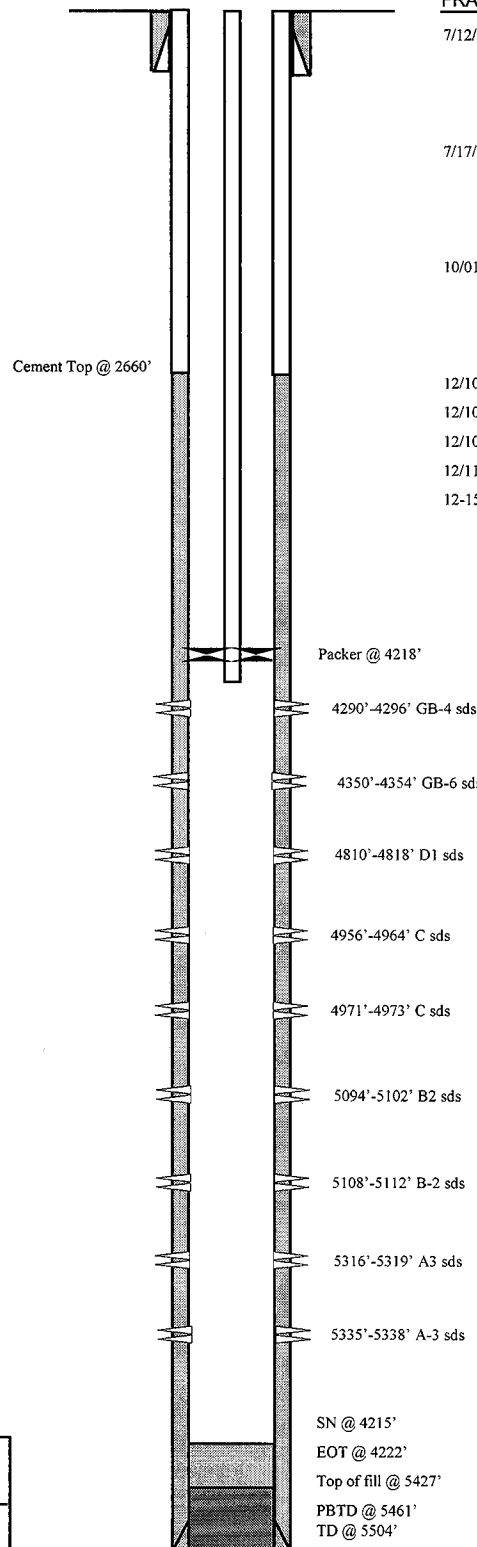
**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 5504'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 390 sk Pozmix.  
CEMENT TOP AT: 2660' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 129 jts (4201.02')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4215.12' KB  
TUBING PACKER: 4218.32'  
TOTAL STRING LENGTH: EOT @ 4222.44'

Injection  
Wellbore Diagram



Initial Production: 69 BOPD,  
0 MCFD, 0 BWPD

**FRAC JOB**

7/12/81 5316'-5338' **Frac A3 sand as follows:**  
1000 gal 15% HCl followed by 14,840# 20/40 sand in 304 bbls gelled 2% KCl fluid. Treated @ avg press of 2300 psi w/avg rate of 20 BPM.

7/17/81 5094'-5112' **Frac B2 sand as follows:**  
3000 gal 15% HCl followed by 25,200# 20/40 sand + 9,000# 10/20 sand in 428 bbls gelled diesel. Treated @ avg press of 3150 psi w/avg rate of 20 BPM.

10/01/82 4956'-4973' **Frac zone as follows:**  
10,000 gal pad followed by 85,000# 20/40 sand in 607 bbls fluid. Treated @ avg press of 2400 psi w/avg rate of 30 BPM. ISIP 2200 psi.

12/10/01 4810'-4818' Broke w/ 10 bbl, 2900 psi, ISIP 2200 psi.

12/10/01 4350'-4354' Broke w/ 10 bbl, 2400 psi, ISIP 1700 psi.

12/10/01 4290'-4296' Broke w/ 10 bbl, 1800 psi, ISIP 1750 psi.

12/11/01 Convert to injector.

12-15-06 5 Year MIT completed.

**PERFORATION RECORD**

Date	Depth Range	SPF	Holes
7/12/81	5335'-5338'	2	03
7/12/81	5316'-5319'	2	03
7/17/81	5108'-5112'	1	04
7/17/81	5094'-5102'	1	08
9/30/82	4971'-4973'	2	04
9/30/82	4956'-4964'	1	09
12/7/01	4810'-4818'	4	32
12/7/01	4350'-4354'	4	16
12/7/01	4290'-4296'	4	24

**Monument Butte Fed. #1-1-9-16**

684' FNL & 1930' FWL  
NENW Section 1-T9S-R16E  
Duchesne Co, Utah  
API #43-013-30571; Lease #UTU-72104



## Monument Butte St. #1-2-9-16

Spud Date: 8/25/81  
Put on Production: 11/6/81  
GL: 5457' KB: 5469'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (295')  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 180 sxs Class "G" cmt.

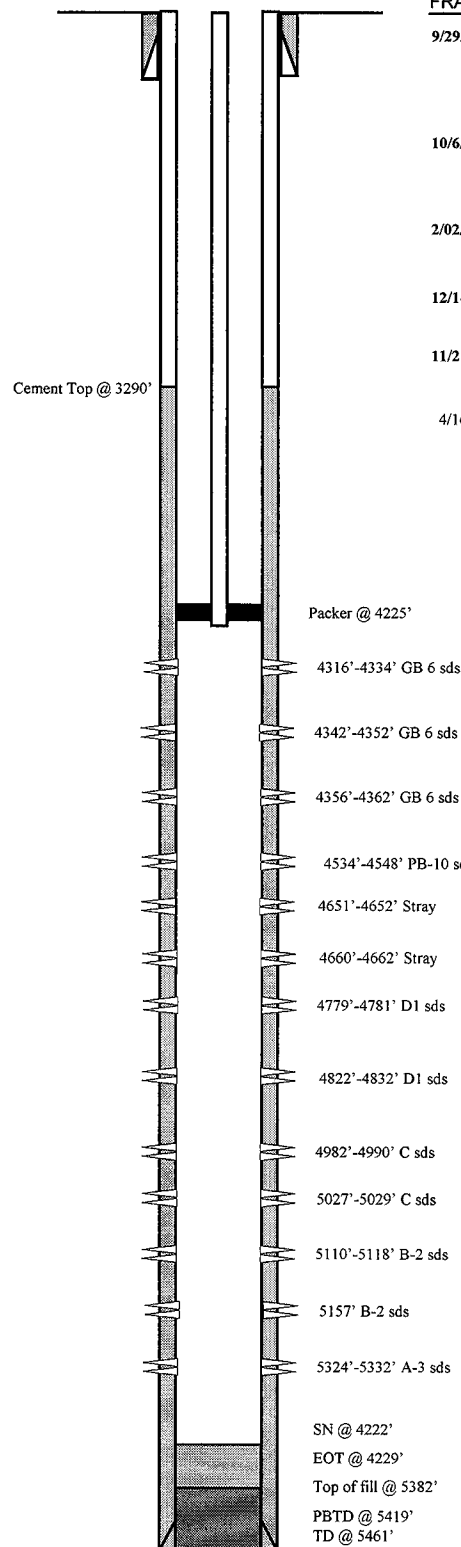
**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 14# & 15.5#  
LENGTH: 131 jts. (5488') 1013' of 15.5# & 4448' of 14#  
DEPTH LANDED: 5461'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 685 sxs Class "G" cement  
CEMENT TOP AT: 3,290' per CBL

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 129 jts. (4209.33')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4222.43' KB  
TUBING PACKER: 4225.63'  
TOTAL STRING LENGTH: EOT @ 4229.75'

Injection  
Wellbore Diagram



Initial Production: 75 BOPD,  
0 MCFD, 20 BWPD

**FRAC JOB**

9/29/81 4651'-5328' **Frac A,B,C,D sands as follows:**  
35,000# 20/40 sand + 11,500 # 10/20 sand in  
440 bbls gelled diesel. Treated @ avg press of  
4300 psi w/avg rate of 21 BPM. ISIP 2450.  
Flush to top perms.

10/6/81 4534'-4544' **Frac PB-10 sand as follows:**  
29,000# 20/40 sand in 286 bbls gelled diesel.  
Treated @ avg press of 3200 psi w/avg rate of  
12 BPM. ISIP 2600.

2/02/85 4317'-4350' **Frac zone as follows:**  
118,000# 20/40 sand in 785 bbls gelled frac  
fluid.

12/14/01 **Convert to injector.**

11/21/06 **5 Year MIT completed on 11/15/06 and  
submitted on 11/21/06.**

4/16/08 **Zone Stimulation.**

**PERFORATION RECORD**

Date	Depth Range	SPF	Holes
9/29/81	5328, 5326, 5157, 5116, 5114, 5113, 5029, 5027, 4988, 4987, 4986, 4826, 4825, 4824, 4781, 4779, 4662, 4661, 4660, 4652, 4651'	1 SPF	20 holes
10/4/81	4534'-4544'	2 SPF	24 holes
2/21/85	4342'-4350'		05 holes
2/21/85	4317'-4334'		10 holes
12/13/01	5324'-5332'	4 SPF	32 holes
12/13/01	5110'-5118'	4 SPF	32 holes
12/13/01	4982'-4990'	4 SPF	48 holes
12/13/01	4822'-4832'	4 SPF	40 holes
12/13/01	4534'-4548'	4 SPF	56 holes
12/13/01	4356'-4362'	4 SPF	36 holes
12/13/01	4342'-4352'	4 SPF	40 holes
12/13/01	4316'-4334'	4 SPF	32 holes

**NEWFIELD**

Monument Butte St. #1-2-9-16  
1605' FNL & 1908' FEL  
SWNE Section 2-T9S-R16E  
Duchesne Co, Utah  
API #43-013-30596; Lease #U-21839



## Monument Butte St. #8-2-9-16

Spud Date: 10/06/95  
 Put on Production: 12/02/95  
 GL: 5447' KB: 5461'

Initial Production: 149 BOPD,  
 105 MCFD, 2 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 DEPTH LANDED: 302'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 120 sxs Class "G" cement.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 DEPTH LANDED: 5891'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 225 sxs Hifill & 210 sxs premium Plus.  
 CEMENT TOP AT: 552'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 165 jts (5265.86')  
 TUBING ANCHOR: 5265.9' KB  
 NO. OF JOINTS: 2 jts (62.34')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5331.0' KB  
 NO. OF JOINTS: 1 jts (31.75')  
 TOTAL STRING LENGTH: EOT @ 5362.8' W/13'KB

SUCKER RODS

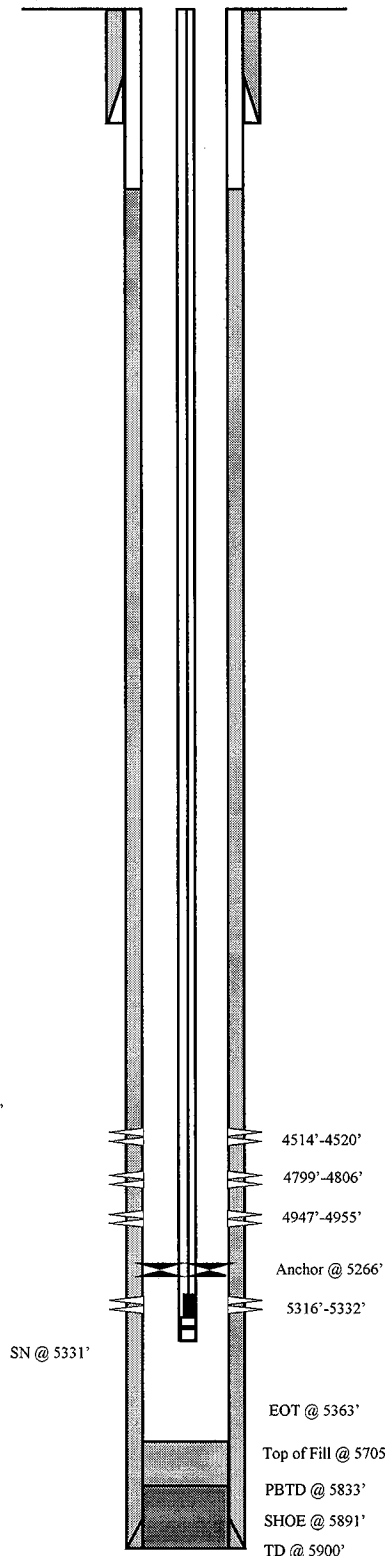
POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 6-1 1/2" weight bars, 18-3/4" scraped rods, 92-3/4" scraped rods, 96-3/4" plain rods, 1-4', 1-8' x 3/4" pony rods.  
 PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
 STROKE LENGTH: 72"  
 PUMP SPEED, SPM:

FRAC JOB

11/22/95	5316'-5332'	<b>Frac A3 sand as follows:</b> 70,700# 20/40 sand in 537 bbls Boragel. Treated @ avg press of 2400 psi w/avg rate of 31.5 BPM. ISIP 2280 psi. Calc. flush: 5316 gal. Actual flush: 5233 gal.
11/25/95	4947'-4955'	<b>Frac C-sd sand as follows:</b> 47,000# 20/40 sand in 443 bbls Boragel. Treated @ avg press of 2200 psi w/avg rate of 27 BPM. ISIP 2130 psi. Calc. flush: 4947 gal. Actual flush: 4858 gal.
11/28/95	4799'-4806'	<b>Frac D1 sand as follows:</b> 48,200# 16/30 sand in 446 bbls Boragel. Treated @ avg press of 2200 psi w/avg rate of 25 BPM. ISIP 2255 psi. Calc. flush: 4799 gal. Actual flush: 4748 gal.
11/01/99		Tubing leak. Update rod and tubing details.
7/09/02	4514'-4520'	<b>Frac PB10 sand as follows:</b> 36,336# 20/40 sand in 347 bbls Viking I-25 fluid. Treated @ avg press of 2225 psi w/avg rate of 25.5 BPM. ISIP 2340 psi. Calc. flush: 4514 gal. Actual flush: 4410 gal.
8/5/03		Pump Change. Update tubing and rod details.
04/14/08		<b>Parted Rods.</b> Rod & tubing detail updated.
8/10/09		Parted rods, Updated rod & tubing details.

PERFORATION RECORD

11/22/95	5316'-5332'	4 JSPF	64 holes
11/25/95	4947'-4955'	4 JSPF	32 holes
11/28/95	4799'-4806'	4 JSPF	28 holes
7/09/02	4514'-4520'	4 JSPF	24 holes



Monument Butte St. #8-2-9-16  
 2078' FNL & 463' FEL  
 SENE Section 2-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-31509; Lease #ML-21839



## Monument Butte Federal #6-1-9-16

Spud Date: 4/16/96  
Put on Production: 6/25/96  
GL: 5406' KB: 5421'

Initial Production: 26 BOPD,  
32 MCFD, 7 BWPD

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
DEPTH LANDED: 293.21' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 165 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: K-55  
WEIGHT: 15.5#  
DEPTH LANDED: 5825.44' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 270 sxs Hifill & 395 sxs Thixotropic.  
CEMENT TOP AT: 284'

TUBING

SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#  
NO. OF JOINTS: 167 jts (5222.63')  
TUBING ANCHOR: 5240.43' KB  
NO. OF JOINTS: 1 jts (31.21')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5272.74' KB  
NO. OF JOINTS: 1 jts (31.55')  
TOTAL STRING LENGTH: EOT @ 5304.74' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 1-2", 1-6" x 3/4" pony rods, 115-3/4" scraped rods, 85-3/4" slick rods, 4-3/4" scraped rods, 6-1 1/2" weight bars.  
PUMP SIZE: 2 1/2 X 1-1/4 X 15'  
STROKE LENGTH: 54"  
PUMP SPEED, SPM: 7.5 SPM

FRAC JOB

6/19/96 5268'-5273' **Frac A sand as follows:**  
52,200# 20/40 sand in 339 bbls Boragel frac fluid. Treated @ avg press of 2300 psi w/avg rate of 16.4 BPM. ISIP 2446 psi. Calc flush: 5268 gal. Actual flush: 5116 gal.

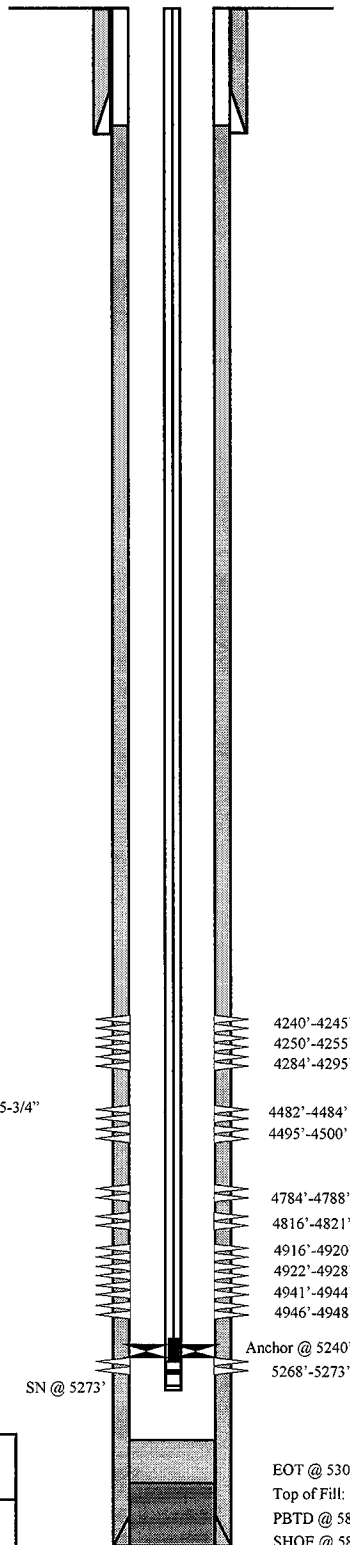
6/21/96 4784'-4948' **Frac C & D sands as follows:**  
75,600# 20/40 sand in 411 bbls Boragel frac fluid. Treated @ avg press of 1600 psi w/avg rate of 24.8 BPM. ISIP 2585 psi. Calc flush: 4784 gal. Actual flush: 4710 gal.

1/19/97  
10/2/02 4240'-4500' **Frac GB4 & PB10 sands as follows:**  
99,953# 20/40 sand in 422 bbls Viking 1-25 fluid. Treated @ avg press of 2245 psi w/avg rate of 26 BPM. ISIP 2280 psi. Calc flush: 4240 gal. Actual flush: 4116 gal.

02/02/06  
Tubing Leak. Update rod and tubing details.

PERFORATION RECORD

6/18/96	5268'-5273'	4 JSPF	20 holes
6/20/96	4946'-4948'	4 JSPF	08 holes
6/20/96	4941'-4944'	4 JSPF	12 holes
6/20/96	4922'-4928'	4 JSPF	24 holes
6/20/96	4916'-4920'	4 JSPF	16 holes
6/20/96	4816'-4821'	4 JSPF	20 holes
6/20/96	4784'-4788'	4 JSPF	16 holes
10/1/02	4495'-4500'	4 JSPF	20 holes
10/1/02	4482'-4484'	4 JSPF	8 holes
10/1/02	4284'-4295'	4 JSPF	44 holes
10/1/02	4250'-4255'	4 JSPF	20 holes
10/1/02	4240'-4245'	4 JSPF	20 holes



NEWFIELD

Monument Butte Federal #6-1-9-16

2082' FNL &amp; 2045' FWL

SE/NW Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-31506; Lease #UTU-72103



## Monument Butte State 9-2

Spud Date: 4/28/96

Put on Production: 5/31/96

GL: 5492' KB: 5505'

**SURFACE CASING**

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 294.70'

DEPTH LANDED: 292.75'

HOLE SIZE: 12-1/4"

CEMENT DATA: 120 sxs Premium cmt, est 5 bbls to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 131 jts. (5618.99')

DEPTH LANDED: 5608'

HOLE SIZE: 7-7/8"

CEMENT DATA: 300 sxs Hyfill mixed &amp; 265 sxs thixotropic

CEMENT TOP AT: Surface per CBL

**TUBING**

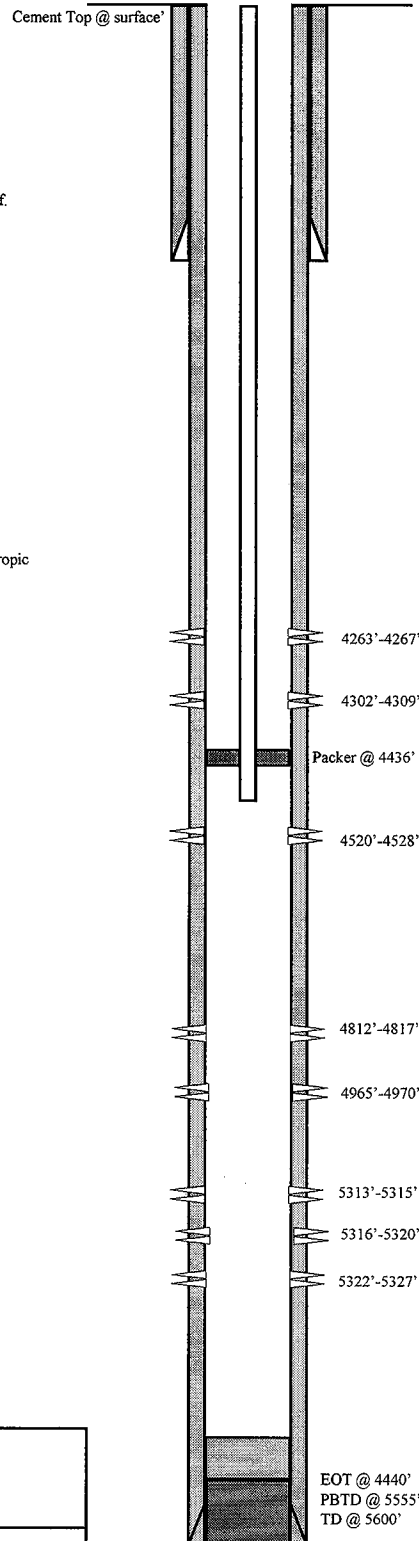
SIZE/GRADE/WT.: 2-7/8" / M-50 / 6.5#

NO. OF JOINTS: 142 jts. (4418.88')

SN LANDED AT: 4431.88'

TUBING PACKER: 4436'

TOTAL STRING LENGTH: 4440.30'

**Injection Wellbore  
Diagram**Initial Production: 103 BOPD,  
385 MCFPD, 3 BWPD**FRAC JOB**

5/20/96	5313'-5327'	<b>Frac A-3 sand as follows:</b> 73,000# of 20/40 sd in 445 bbls Boragel, brokedown @ 3650 psi. Treated @ avg rate 20.3 bpm, avg press 1850 psi. ISIP-2042 psi, 5-min SI 1978 psi. Flowback after 5 min on 16/64" ck @ 1.6 bpm.
5/22/96	4812'-4970'	<b>Frac C and D-1 zones as follows:</b> 103,800# of 20/40 sd in 545 bbls Boragel. Breakdown @ 2690# treated @ avg rate of 30.5, avg press 2200#. ISIP-2121 psi, 5-min 2052 psi. Flowback after 5 min on 16/64" ck @ 1.6 bpm.
5/24/96	4520'-4528'	<b>Frac PB-10 zone as follows:</b> 78,800# of 20/40 sd in 431 bbls Boragel. Breakdown @ 3051# treated @ avg rate of 16.5 bpm, avg press 2200#. ISIP-3090 psi, 5-min SI 3046 psi. Flowback on 16/64" ck.
11/12/01		Convert to injector.
11/13/01		Perform MIT.
7-18-05	4263'-4309'	<b>Frac GB4 &amp; GB6 zone as follows:</b> 19,026# of 20/40 sd in 202 bbls of Lightning 17frac fluid. Treated w/ ave. pressure of 2728 psi and @ ave rate of 14.3 BPM. ISIP 1900 psi.
8-4-05		Completed MIT

**PERFORATION RECORD**

5/18/96	5313'-5315'	4 JSPF	8 holes
5/18/96	5316'-5320'	4 JSPF	16 holes
5/18/96	5322'-5327'	4 JSPF	20 holes
5/21/96	4965'-4970'	2 JSPF	10 holes
5/21/96	4812'-4817'	2 JSPF	10 holes
5/23/96	4520'-4528'	4 JSPF	32 holes
7-19-05	4263'-4267'	4 JSPF	16 holes
7-19-05	4302'-4309'	4 JSPF	28 holes

**NEWFIELD****Monument Butte State 9-2**

2058 FSL &amp; 713 FEL

NESE Section 2-T9S-R16E

Duchesne Co, Utah

API #43-013-31555; Lease #ML-21839



## Federal 1-13-9-16

Spud Date: 08/08/05  
 Put on Production: 11/03/05  
 GL: 5459' KB: 5471'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (301.91')  
 DEPTH LANDED: 313.76' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 4 bbls cmt to surf.

**PRODUCTION CASING**

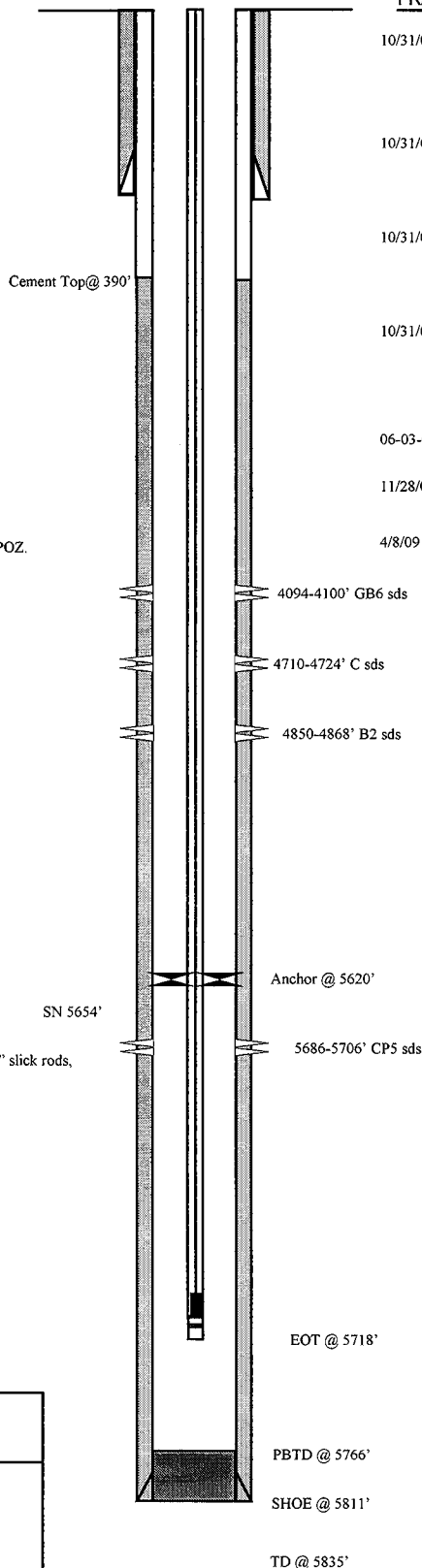
CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 133 jts. (5798.07')  
 DEPTH LANDED: 5811.32' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 350 sxs Prem. Lite II mixed & 475 sxs 50/50 POZ.  
 CEMENT TOP: 590'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 180 jts (5609.88')  
 TUBING ANCHOR: 5619.88' KB  
 NO. OF JOINTS: 1 jts (31.42')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5654.10' KB  
 NO. OF JOINTS: 2 jts (62.55')  
 TOTAL STRING LENGTH: EOT @ 5718.20' KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
 SUCKER RODS: 1-4' x 3/4" pony rod, 100-3/4" guided rods, 90-3/4" slick rods, 30-3/4" guided rods, 6-1 1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 14' x 18' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, 5 SPM:

**Wellbore Diagram**

Initial Production: BOPD,  
 MCFD, BWPD

**FRAC JOB**

10/31/05 5686-5706' **Frac CP5 sands as follows:**  
 89079# 20/40 sand in 688 bbls Lightning 17 frac fluid. Treated @ avg press of 1303 psi w/avg rate of 24.8 BPM. ISIP 1900 psi. Calc flush: 5684 gal. Actual flush: 5431 gal.

10/31/05 4850-4868' **Frac B2 sands as follows:**  
 69180# 20/40 sand in 542 bbls Lightning 17 frac fluid. Treated @ avg press of 1759 psi w/avg rate of 24.7 BPM. ISIP 2400 psi. Calc flush: 4848 gal. Actual flush: 4633 gal.

10/31/05 4710-4724' **Frac C sands as follows:**  
 98861# 20/40 sand in 710 bbls Lightning 17 frac fluid. Treated @ avg press of 1550 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4708 gal. Actual flush: 4507 gal.

10/31/05 4094-4100' **Frac GB6 sands as follows:**  
 33229# 20/40 sand in 346 bbls Lightning 17 frac fluid. Treated @ avg press of 1858 psi w/avg rate of 24.7 BPM. ISIP 2000 psi. Calc flush: 4092 gal. Actual flush: 3935 gal.

06-03-06 Pump Change: Tubing & Rod Detail Updated

11/28/07 Pump Change: Updated tubing & rod detail

4/8/09 Parted rods. Updated r & t details.

**PERFORATION RECORD**

Date	Interval	ISPF	Holes
10/24/05	5686-5706'	4 JSPF	80 holes
10/31/05	4850-4868'	4 JSPF	72 holes
10/31/05	4710-4724'	4 JSPF	56 holes
10/31/05	4094-4100'	4 JSPF	24 holes

**NEWFIELD****Federal 1-13-9-16**

487' FNL &amp; 612' FEL

NE/NE Section 13-T9S-R16E

Duchesne Co, Utah

API #43-013-32660; Lease #UTU-75039



## FEDERAL 1-23-9-16

Spud Date: 12/10/07  
Put on Production: 02/07/08  
GL: 5651' KB: 5663'

Initial Production: BOPD,  
MCFD, BWPD

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (309.17')  
DEPTH LANDED: 321.02' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 4 bbls cmt to surf.

Cement Top @ 91'

FRAC JOB

02/21/08 5365-5373' **Frac CP1 sands as follows:**  
22746# 20/40 sand in 347 bbls Lightning 17  
frac fluid. Treated @ avg press of 2152 psi  
w/avg rate of 23 BPM. ISIP 1913 psi.  
02/18/08 4898-4963' **Frac A1 & A3 sands as follows:**  
159791# 20/40 sand in 1105 bbl Lightning 17  
frac fluid. Treated @ avg press of 1790 psi  
w/avg rate of 23.2 BPM. ISIP 2091 psi.  
02/18/08 4007-4018' **Frac GB6 sands as follows:**  
43024# 20/40 sand in 389 bbls Lightning 17  
frac fluid. Treated @ avg press of 1653 psi  
w/avg rate of 23.2 BPM. ISIP 1697 psi.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 132 jts. (5770.94')  
DEPTH LANDED: 5784.19' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 170 jts (5340.76')  
TUBING ANCHOR: 5352.76' KB  
NO. OF JOINTS: 1jts (31.34')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5386.90' KB  
NO. OF JOINTS: 2jts (62.82')  
TOTAL STRING LENGTH: EOT @ 5451.27' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' SM polished rods  
SUCKER RODS: 1-2', 2-8' X 3/4" Pony Rods, 100-3/4" guided rods, 89-3/4"  
plain rods, 20-3/4" guided rods, 6-1 1/2" weight rods.  
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 16' x 12' RHAC  
STROKE LENGTH 74"  
PUMP SPEED, 4. SPM:

PERFORATION RECORD

5365-5373'	4 JSPF	32 holes
4951-4963'	4 JSPF	48 holes
4898-4916'	4 JSPF	72 holes
4007-4018'	4 JSPF	44 holes

SN 5387'

4007-4018'  
4898-4916'  
4951-4963'  
Anchor @ 5353'  
5365-5373'  
EOT @ 5451'  
PBSD @ 5740'  
SHOE @ 5784'  
TD @ 5825'

**NEWFIELD****FEDERAL 1-23-9-16**

632' FNL &amp; 472' FEL

NE/NE Section 23-T9S-R16E

Duchesne Co, Utah

API #43-013-33002; Lease # UTU-15855



Spud Date: 11/17/82

Put on Production: 12/24/82

GL: 5472' KB: 5488'

## Monument Butte Federal #1-14

Wellbore Diagram

Initial Production: 162 STBOPD,  
100 MCFD, 0 STBWPSURFACE CASING

STRING: 1  
 SIZE: 8 5/8"  
 GRADE: J-55  
 WEIGHT: 24 lbs  
 LENGTH: 8 jts @ 323'  
 HOLE SIZE: 12 1/4"  
 DEPTH LANDED: 339' KB  
 CEMENT DATA: 225 sx, Class G

PRODUCTION CASING

STRING: 1  
 SIZE: 5 1/2"  
 GRADE: J-55  
 WEIGHT: 15.5 lbs  
 LENGTH: 151 jts @ 5574'  
 HOLE SIZE: 7 7/8"  
 DEPTH LANDED: 5590' KB  
 CEMENT DATA: 325 sx, BJ Lite &  
 500 sx, Class G  
 CEMENT TOP AT: 1465' KB from CBL.

TUBING RECORD

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 161 jts (5207.61')  
 TUBING ANCHOR: 5223.61' KB  
 NO. OF JOINTS: 1 jts (33.02')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 5259.43' KB  
 NO. OF JOINTS: 2 jts (63.83')  
 TOTAL STRING LENGTH: EOT @ 5324.81' KB.

SUCKER RODS

POLISHED ROD: 1-1/4" x 22' SM  
 SUCKER RODS: 1-4, 2-6', 1-8' x 3/4" pony rod, 201-3/4" scraped rods,  
 6-1 1/2" weight rods.  
 PUMP SIZE: CDI 2-1/2" x 1-1/2" x 14' RHAC  
 STROKE LENGTH: 86"  
 PUMP SPEED, 5 1/2 SPM:

FRAC JOB

4485'- 4524', Frac w/Halliburton on 2/21/82.  
 28000 gal X-linked gel w/137000 lbs 20-40  
 mesh  
 sand. Avg 35 BPM @ 2305 psig, max @ 2470  
 psig, ISIP @ 2140 psig, 5 min @ 2030 psig, 10  
 min @ 1960 psig, 15 min @ 1920 psig.

4772'- 4776', Frac w/Halliburton on  
 12/16/82.  
 10500 gal X-linked gel w/45000 lbs 20-40  
 mesh  
 sand. Avg 25 BPM @ 2183 psig, max @ 2400  
 psig, ISIP @ 1950 psig, 5 min @ 1820 psig, 10  
 @ 1750 psig, 15 min @ 1740 psig min

5250'- 5258', Frac w/Halliburton on  
 12/13/82.  
 19000 gal X-linked gel w/50000 lbs 20-40  
 mesh  
 sand. Avg 20 BPM @ 1730 psig, max @  
 1840 psig,  
 15 min SI @ 1070 psig. 10/31/05 4094-  
 4100'

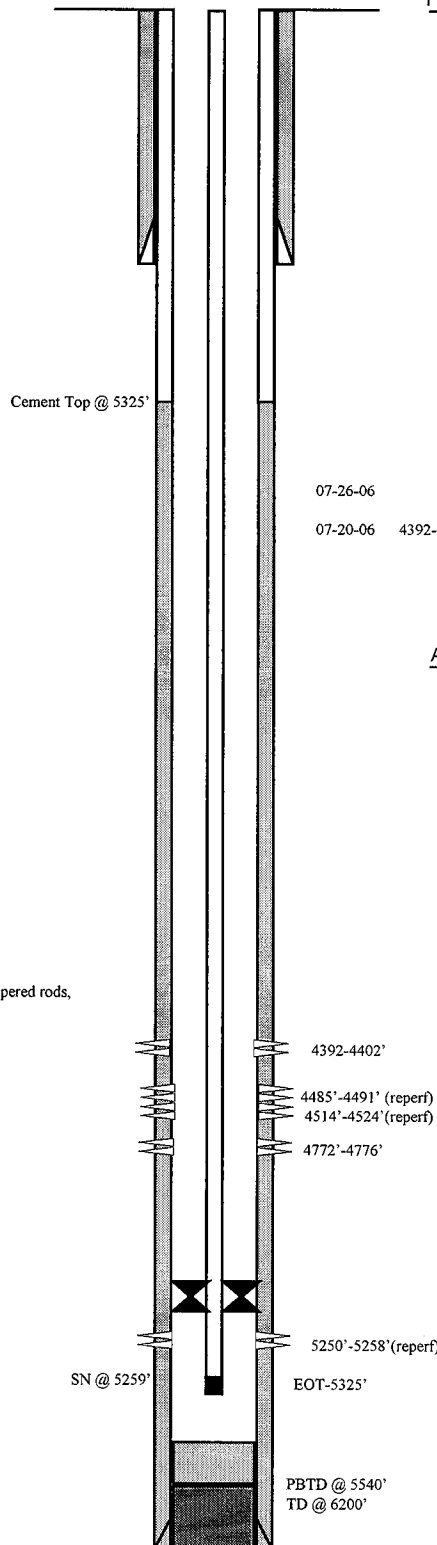
07-26-06 Recompletion. Rod & Tubing detail updated.

07-20-06 4392-4402'

Frac PB7 sands as follows:  
 58,060# 20/40 sand in 484 bbls  
 Lightning 17frac fluid. Treated @  
 avg press of 3670 psi w/avg rate  
 of 14.3 BPM. ISIP 2910 psi. Calc  
 flush: 2712 gal. Actual flush: 1050

ACID JOBPERFORATION RECORD

4485'- 4491' (6') 1 SPF YELLOW4  
 4514'- 4524' (10') 1 SPF YELLOW5  
 4772'- 4776' (4') 4 SPF RED1  
 5250'- 5258' (8') 2 SPF GREEN4  
 07/14/06 5250-5258' 4 JSPF 32 holes  
 07/14/06 4514-4524' 4 JSPF 40 holes  
 07/14/06 4485-4491' 4 JSPF 24 holes  
 07/14/06 4392-4402' 4 JSPF 40 holes



NEWFIELD



Monument Butte Federal #1-14

820 FSL 820 FWL

SWSW Section 1-T9S-R16E

Duchesne Co, Utah

API #43-013-310703; Lease #U-18399



## Monument Federal #32-1J-9-16

Spud Date: 8/24/1994  
Put on Production: 9/23/1994  
GL: 5397' KB: 5407'

Initial Production: 52 BOPD,  
NM MCFD, 0 BWPD

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (353.65')  
DEPTH LANDED: 352.15'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 220 sxs Class "G" cmt, est 6 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 133 jts. (5780.24')  
DEPTH LANDED: 5789.24'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 261 sxs Super "G" tailed by 290 sxs 50/50 POZ.  
CEMENT TOP AT: 1882' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 166 jts (5225.43')  
TUBING ANCHOR: 5235.43'  
NO. OF JOINTS: 2 jts (66.20')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5304.43' KB  
NO. OF JOINTS: 1 jts (33.07')  
TOTAL STRING LENGTH: EOT @ 5339.05'

SUCKER RODS

POLISHED ROD: 1-1/4" x 22' SM  
SUCKER RODS: 1-8", 1-6", 1-4" x 3/4" pony rods 6-1 1/2" weight bars; 80-3/4" scraped rods, 74-3/4" plain rods, 51-3/4" scraped rods,  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
STROKE LENGTH: 74"  
PUMP SPEED, SPM: 4 SPM

FRAC JOB

9/10/94 5276'-5288' **Frac zone as follows:**  
17,640# 20/40 sand + 20,540# 16/30 sand in 352 bbls gelled KCl fluid. Treated @ avg press of 2550 psi w/avg rate of 30.7 BPM. ISIP 2250 psi.

9/14/94 4786'-4946' **Frac zone as follows:**  
26,800# 16/30 sand in 128 bbls gelled KCl fluid. Treated @ avg press of 3000 psi w/avg rate of 29.5 BPM. ISIP 2200 psi.

10/12/00  
10/24/02 4474'-4501' **Frac PB zones as follows:**  
61,000# 20/40 sand in 474 bbls 1-25 viking fluid. Treated @ avg press of 2200 psi w/avg rate of 26.5 BPM. ISIP 2400 psi. Calc flush: 4474 gal. Actual flush: 4410 gal.

10/24/02 4222'-4297' **Frac GB zones as follows:**  
49,200# 20/40 sand in 399 bbls 1-25 viking fluid. Treated @ avg press of 2075 psi w/avg rate of 26.5 BPM. ISIP 2180 psi. Calc flush: 4222 gal. Actual flush: 4116 gal.

08/31/05 Tbg leak

12/07/05 Pump Change. Detail Rod and tubing update.

03/23/07 Tubing Leak. Updated Rod & Tubing Details

12/3/08 Tubing Leak. Updated rod & tubing Details.

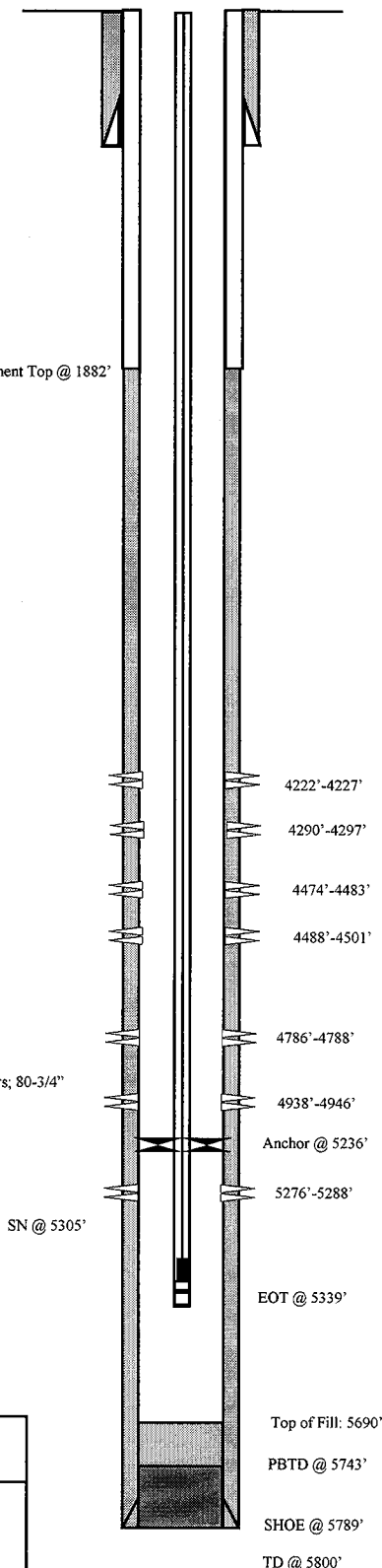
PERFORATION RECORD

9/09/94	5276'-5288'	4 JSPF	48 holes
9/13/94	4938'-4946'	4 JSPF	10 holes
9/13/94	4786'-4788'	4 JSPF	3 holes
10/24/02	4488'-4501'	4 JSPF	52 holes
10/24/02	4474'-4483'	4 JSPF	36 holes
10/24/02	4290'-4297'	4 JSPF	28 holes
10/24/02	4222'-4227'	4 JSPF	20 holes

Note: It was discovered on 2/6/03 that the GB-6 zone from 4314-23 was not opened during the last recompletion procedure.



**Monument Federal #32-1J-9-16**  
2143' FNL & 1987' FEL  
SWNE Section 1-T9S-R16E  
Duchesne Co, Utah  
API #43-013-31414; Lease #UTU-33992





## S. Monument Butte G-1-9-16

Spud Date: 8/16/08  
Put on Production: 9/24/08  
GL: 5404' KB: 5416'

Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (324.89')  
DEPTH LANDED: 336.74'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 3 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 147 jts (6266.29')  
SET AT: 6236.17'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sx Premilite II and 450 sx 50/50 Poz  
CEMENT TOP AT: 24'

TUBING

SIZE/GRADE/WT: 2-7/8", J-55, 6.5#  
NO. OF JOINTS: 195 jts ( 6004.69')  
TUBING ANCHOR: 6016.69' KB  
NO. OF JOINTS: 1 jt ( 30.67')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 6050.16' KB  
NO. OF JOINTS: 1 jt ( 31.05')  
TOTAL STRING LENGTH: EOT @ 6082.76'

SUCKER RODS

POLISHED ROD: 1 1/2" x 26' polished rod  
SUCKER RODS: 1-8', 1-6' & 1-4' x 7/8" scraped rods, 4-1 1/2" wt rods, 1 5/8" shear cplg (21k)  
PUMP SIZE: CDI 2 1/2" x 1 3/4" x 20'  
STROKE LENGTH: 122  
PUMP SPEED, SPM: 5.5

FRAC JOB

9/17/08 6062-6072' Frac CP5 sds as follows:  
30,582#s of 20/40 sand in 425 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2124 psi w/ ave rate of 21.2 BPM. ISIP 1956 psi. Actual flush: 5557 gals.

9/17/08 5888-5904' Frac CP3 sds as follows:  
45,555#s of 20/40 sand in 465 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1725 psi w/ ave rate of 22.3 BPM. ISIP 1772 psi. Actual flush: 5296 gals.

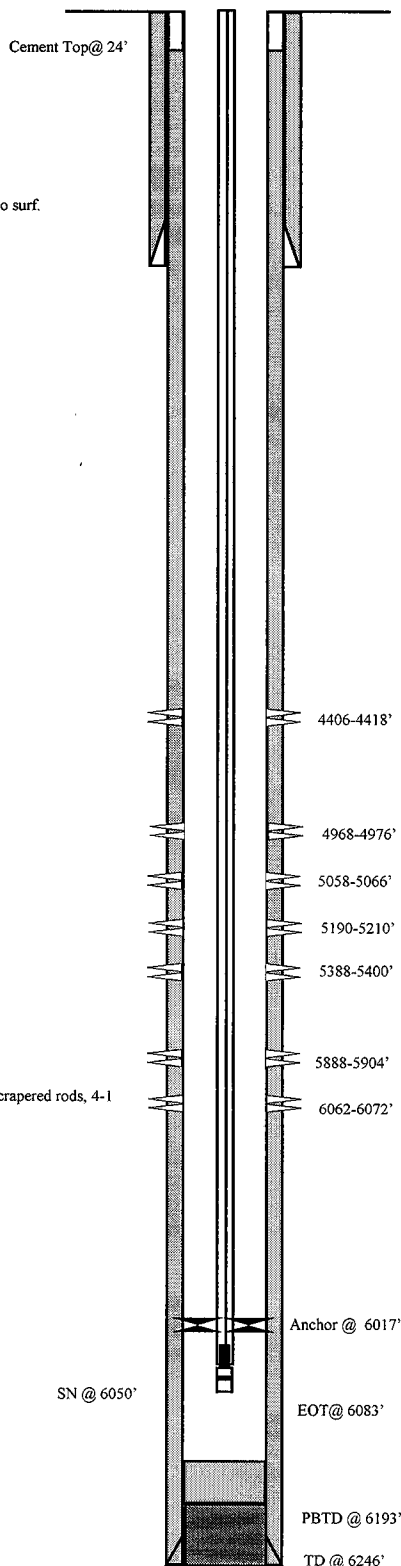
9/18/08 5388-5400' Frac A1 sds as follows:  
45,735#s of 20/40 sand in 452 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1841 psi w/ ave rate of 22.3 BPM. ISIP 1967 psi. Actual flush: 4880 gals.

9/18/08 5190-5210' Frac B2 sds as follows:  
55,539#s of 20/40 sand in 493 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1702 psi w/ ave rate of 22.3 BPM. ISIP 1945 psi. Actual flush: 4683 gals.

9/18/08 5058-5066' Frac C sds as follows:  
25,121#s of 20/40 sand in 380 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2264 psi w/ ave rate of 22.3 BPM. ISIP 2721 psi. Actual flush: 4553 gals.

9/18/08 4968-4976' Frac D2 sds as follows:  
25,324#s of 20/40 sand in 356 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2072 psi w/ ave rate of 22.3 BPM. ISIP 1963 psi. Actual flush: 4376 gals.

9/18/08 4406-4418' Frac GB6 sds as follows:  
27,816#s of 20/40 sand in 374 bbls of Lightning 17 fluid. Treated w/ ave pressure of 2359 psi w/ ave rate of 22.2 BPM. ISIP 2078 psi. Actual flush: 4322 gals.

PERFORATION RECORD

9/18/08	4406-4418'	4 JSPF	48 holes
9/18/08	4968-4976'	4 JSPF	32 holes
9/18/08	5058-5066'	4 JSPF	32 holes
9/18/08	5190-5210'	4 JSPF	80 holes
9/18/08	5388-5400'	4 JSPF	48 holes
9/17/08	5888-5904'	4 JSPF	32 holes
9/17/08	6062-6072'	4 JSPF	40 holes

**S. Monument Butte G-1-9-16**

2076' FNL & 2024' FWL  
SE/NW Section 1-T9S-R16E  
Duchesne Co, Utah  
API #43-013-33964; Lease #UTU-72103



Spud Date: 12/2/82

Put on production: 1/12/83

Put on Injection: 8/18/94

GL: 5488' KB: 5500'

## Monument Butte Fed. #1-13-9-16

## Injection Wellbore Diagram

Initial Production: 265 BOPD,  
100 MCFD, 0 BWPDSURFACE CASING

SIZE: 8 5/8" / K-55 / 24#  
 LENGTH: 7 jts @ 295'  
 DEPTH LANDED: 311'KB  
 HOLE SIZE: 12 1/4"  
 CEMENT DATA: 225 sx, Class "G". Cement to surface.

PRODUCTION CASING:

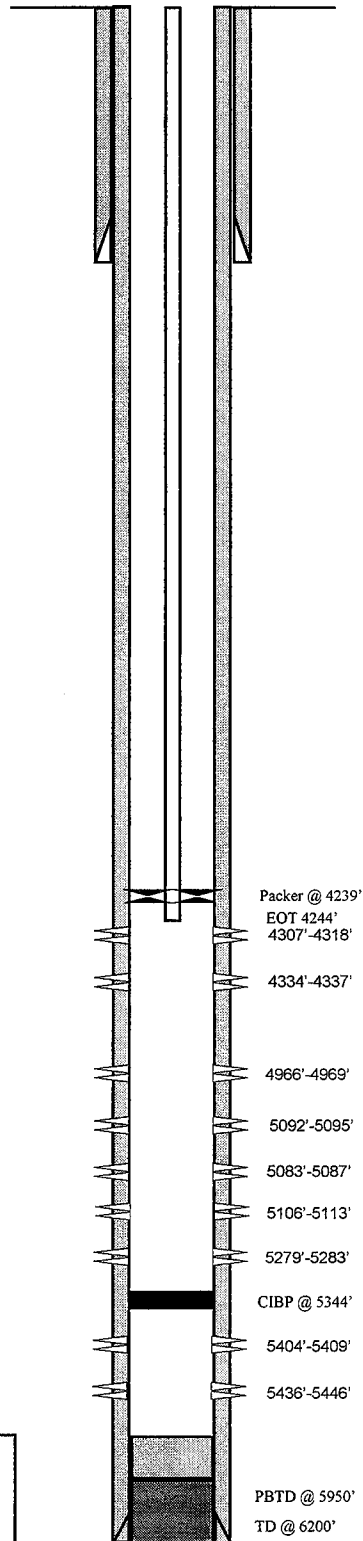
CSG SIZE: 5-1/2" / J-55 / 15.5#  
 LENGTH: 15 jts.  
 CSG SIZE: 5-1/2" / J-55 / 14#  
 LENGTH: 132 jts.  
 DEPTH LANDED: 6002' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 360 sx BJ Lite & 525 sx Class "G".  
 CEMENT TOP AT: 1800' per CBL

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
 NO. OF JOINTS: 132 jts (4235.01')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4228.27' KB  
 2 7/8" x 2 3/8" CROSS-OVER  
 TUBING PACKER: 4235.27'  
 SIZE/GRADE/WT.: 2-3/8" / J-55  
 NO. OF JOINTS: 19 jts (4858.03')  
 SEATING NIPPLE: 2-3/8" (1.10')  
 SN LANDED AT: 4235.01' KB  
 TUBING PACKER: 4239.36'  
 TOTAL STRING LENGTH: EOT @ 4243.56'

FRAC JOB

1/10/83	4966'-5283'	<b>Frac zone as follows:</b> 200,800 lbs 20-40 sand in 1767 bbls. fluid. Avg treating press. 2770 psig @ 60 BPM. ISIP @ 2070 psig. Calc. Flush: 4966 gal, Actual flush: 5100 gal.
4/23/83	5404'-5446'	<b>Frac zone as follows:</b> 91,000 lbs 20-40 sand in 990 bbls. fluid. Avg treating press. 4417 psig @ 20 BPM. ISIP @ 2610 psig. Calc. Flush: 5404 gal, Actual flush: 2100 gal.
5/26/83	4307'-4327'	<b>Frac zone as follows:</b> 122,000 lbs 20-40 sand in 1098 bbls. fluid. Avg treating press. 2045 psig @ 20 BPM. ISIP @ 2100 psig. Calc. Flush: 4307 gal, Actual flush: 5100 gal.
9/13/06		<b>Well Re-completed</b> (reperf A3 sds, C sds, B2 sds.)
10/13/06		<b>MIT completed and submitted.</b>

PERFORATION RECORD:

1/08/83	5279'-5283'	1 SPF	5
holes			
1/08/83	5106'-5113'	1 SPF	7
holes			
1/08/83	5083'-5087'	1 SPF	4
holes			
1/08/83	5092'-5095'	1 SPF	5
holes			
1/08/83	4966'-4969'	1 SPF	4
holes			
4/22/83	5436'-5446'	2 SPF	20
holes			
4/22/83	5404'-5409'	2 SPF	10
holes			
5/25/83	4334'-4337'	2 SPF	6
holes			
5/25/83	4307'-4318'	2 SPF	22
holes			

**NEWFIELD**

**Monument Butte Federal #1-13**  
 1820 FSL & 685 FWL  
 NWSW Section 1-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-30702; Lease #U-18399



Spud Date: 3/19/82  
Put on Projection: 12/6/82  
GL: 5432' KB: 5442'

## Monument Butte Federal #1-23-9-16

Wellbore Diagram

Initial Production: 156 STBOPD,  
100 MCFD, 0 STBWPD

### SURFACE CASING

SIZE: 8 5/8" / J-55 / 24#  
LENGTH: 6 jts (243')  
DEPTH LANDED: 256'KB  
HOLE SIZE: 12 1/4"  
CEMENT DATA: 150 sx, Class "G". Cement to surface.

### PRODUCTION CASING

SIZE: 5 1/2" / J-55 / 15.5#  
LENGTH: 15 jts. (633')  
SIZE: 5 1/2" / J-55 / 14#  
LENGTH: 139 jts. (5580')  
DEPTH LANDED: 6200' KB  
HOLE SIZE: 7 7/8"  
CEMENT DATA: 365 sx, BJ Lite & 625 sx, Class G  
CEMENT TOP AT: 1890' from CBL

### TUBING RECORD

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 144 jts (4748')  
TUBING ANCHOR: 4752'  
NO. OF JOINTS: 16 jts (528')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5291' KB  
NO. OF JOINTS: 1 jts Perf. Sub. (3')  
NO. OF JOINTS: 1 jts Mud Anchor. (33')  
TOTAL STRING LENGTH: EOT @ 5317'

### SUCKER RODS

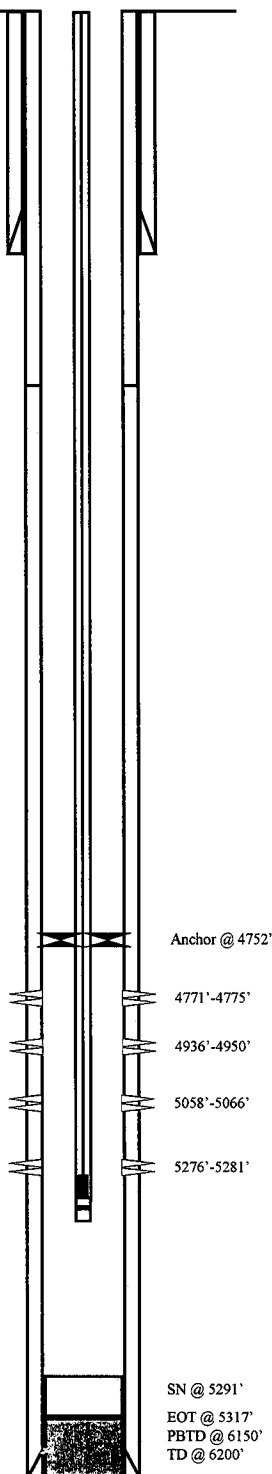
POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 1-1" x 2' pony rod, 4-1 1/2" weight bars, 1-1" x 2' pony rod,  
4-3/4" scraper rods; 176-3/4" slick rods, 25-3/4" scraper rods, 1-4', 1-6' x 3/4"  
pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC  
STROKE LENGTH: 75"  
PUMP SPEED, SPM: 6 SPM  
LOGS: Dual Induction-SFL, Cement Bond Log,  
Compensated Neutron-Formation Density Log.

### FRAC JOB

11/15/82	5058'-5281'	<b>Frac sand as follows:</b> 84,000# 20/40 sand in 908 bbls fluid. Treated @ avg press of 2850 psi w/avg rate of 30 BPM. ISIP 2150 psi. Calc. flush: 5058 gal, Actual flush: 5160 gal.
11/23/82	4771'-4950'	<b>Frac sand as follows:</b> 92,000# 20/40 sand in 973 bbls fluid. Treated @ avg press of 2348 psi w/avg rate of 30 BPM. ISIP 1940 psi. Calc. flush: 4771 gal, Actual flush: 4900 gal.
5/31/00		Pump change. Update rod and tubing details.

### PERFORATION RECORD

11/11/82	5276'-5281'	1 SPF	07 holes
11/11/82	5058'-5066'	1 SPF	08 holes
11/22/82	4936'-4950'	1 SPF	15 holes
11/22/82	4771'-4775'	1 SPF	05 holes



Monument Butte Federal #1-23-9-16  
1980 FSL & 1980 FWL  
NWSE Section 1-T9S-R16E  
Duchesne Co, Utah  
API #43-013-30646; Lease #U-18399



**Multi-Chem Group, LLC**

Multi-Chem Analytical Laboratory  
1553 East Highway 40  
Vernal, UT 84078

**Water Analysis Report**Production Company: **NEWFIELD PRODUCTION (158)**Sample ID: **WA-33956**Well Name: **Fed Mon Bt 5-1-9-16**Sample Point: **tank**Sample Date: **11/20/2009**Sales Rep: **Randy Huber**Lab Tech: **Peter Poulsen**

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	11/20/2009	<b>Cations</b>	<b>mg/L</b>	<b>Anions</b>	<b>mg/L</b>
Temperature (°F):	100	Calcium (Ca):	40.00	Chloride (Cl):	4000.00
Sample Pressure (psig):	0	Magnesium (Mg):	-	Sulfate (SO <sub>4</sub> ):	2.00
Specific Gravity (g/cm <sup>3</sup> ):	1.0080	Barium (Ba):	20.00	Dissolved CO <sub>2</sub> :	-
pH:	7.5	Strontium (Sr):	-	Bicarbonate (HCO <sub>3</sub> ):	1583.00
Turbidity (NTU):	-	Sodium (Na):	3110.00	Carbonate (CO <sub>3</sub> ):	-
		Potassium (K):	-	H <sub>2</sub> S:	1.00
		Iron (Fe):	3.08	Phosphate (PO <sub>4</sub> ):	-
		Manganese (Mn):	0.56	Silica (SiO <sub>2</sub> ):	-
		Lithium (Li):	-	Fluoride (F):	-
		Aluminum (Al):	-	Nitrate (NO <sub>3</sub> ):	-
		Ammonia NH <sub>3</sub> :	-	Lead (Pb):	-
Calculated T.D.S. (mg/L)	8760			Zinc (Zn):	-
Molar Conductivity (µS/cm):	13272			Bromine (Br):	-
Resistivity (Mohm):	0.7535			Boron (B):	-

Test Conditions		Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl										
		Calcium Carbonate CaCO <sub>3</sub>		Gypsum CaSO <sub>4</sub> · 2H <sub>2</sub> O		Calcium Sulfate CaSO <sub>4</sub>		Strontium Sulfate SrSO <sub>4</sub>		Barium Sulfate BaSO <sub>4</sub>		Calculated CO <sub>2</sub>
		Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
Temp °F	Gauge Press. psi											
100	0	2.66	5.64	0.00	-2249.00	0.00	-2373.20	-	-	1.15	0.52	1.32
80	0	1.98	3.67	0.00	-18.89	0.00	-2524.80	-	-	1.75	1.75	0.62
100	0	2.66	5.64	0.00	-14.98	0.00	-2373.30	-	-	1.15	0.52	0.77
120	0	3.32	7.40	0.00	-11.92	0.00	-2151.00	-	-	0.78	-1.07	0.86
140	0	4.00	9.13	0.00	-9.47	0.00	-1889.80	-	-	0.54	-3.07	0.97
160	0	4.64	10.82	0.00	-7.51	0.00	-1616.50	-	-	0.38	-5.52	1.09
180	0	5.21	12.40	0.00	-5.96	0.00	-1351.30	-	-	0.27	-8.46	1.20
200	0	5.68	13.78	0.00	-4.77	0.00	-1107.40	-	-	0.19	-11.94	1.21
220	2.51	6.00	14.94	0.00	-3.92	0.00	-901.24	-	-	0.14	-16.28	1.23
240	10.3	6.24	15.68	0.00	-3.25	0.00	-715.64	-	-	0.10	-21.05	1.25
260	20.76	6.37	16.02	0.00	-2.78	0.00	-560.30	-	-	0.08	-26.49	1.27
280	34.54	6.39	15.98	0.00	-2.44	0.00	-432.99	-	-	0.06	-32.69	1.29
300	52.34	6.32	15.63	0.00	-2.22	0.00	-330.42	-	-	0.04	-39.73	1.32

**Conclusions:****Notes:**

Calcium Carbonate scale is indicated at all temperatures from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION





# Multi-Chem Group, LLC

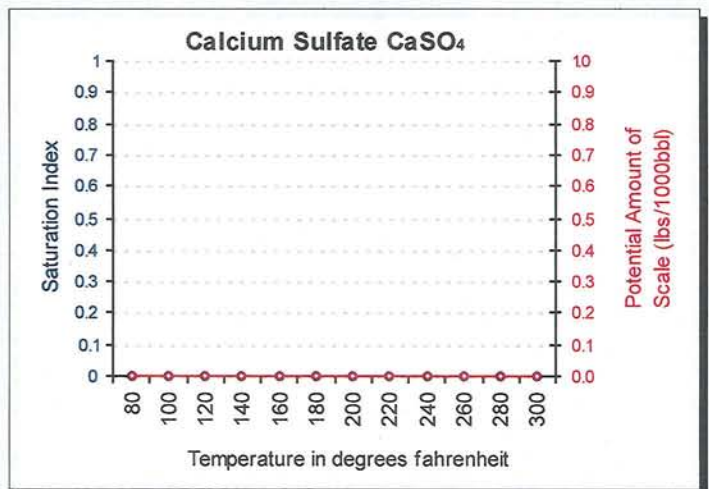
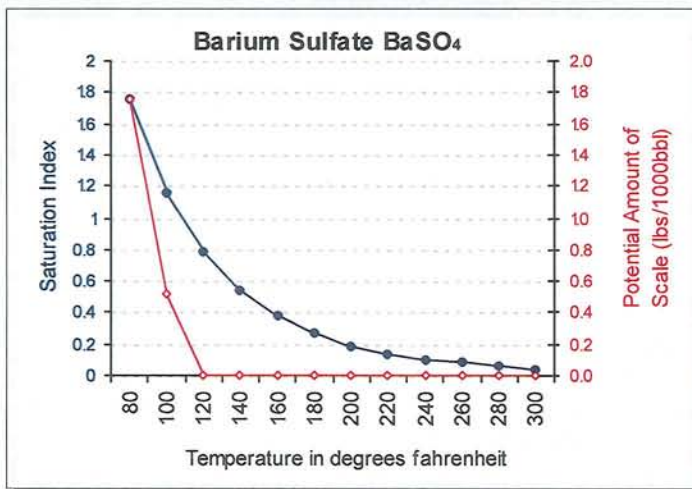
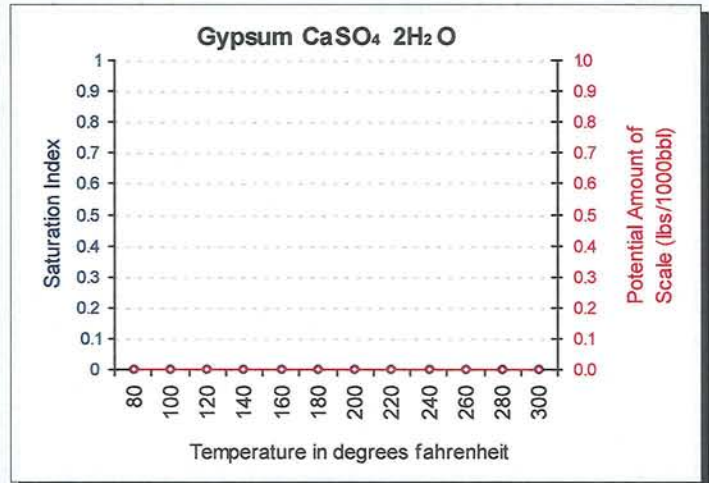
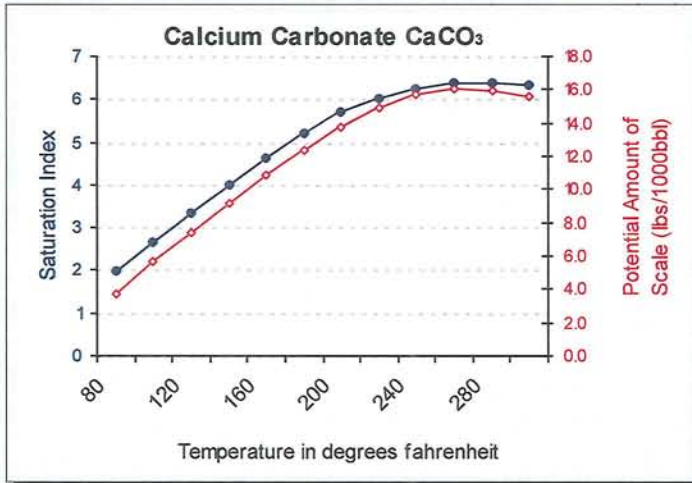
Multi-Chem Analytical Laboratory  
1553 East Highway 40  
Vernal, UT 84078

multi-chem®

## Scale Prediction Graphs

Well Name: **Fed Mon Bt 5-1-9-16**

Sample ID: **WA-33956**





# Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

multi-chem®



## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION (158)**

Sample ID: **WA-35263**

Well Name: **JONAH INJ**

Sample Point: **Before Filters**

Sample Date: **1 /1 /2010**

Sales Rep: **Randy Huber**

Lab Tech: **John Keel**

### Sample Specifics

Test Date:	1/5/2010
Temperature (°F):	90
Sample Pressure (psig):	0
Specific Gravity (g/cm³):	1.0050
pH:	8.5
Turbidity (NTU):	-
Calculated T.D.S. (mg/L):	7933
Molar Conductivity (µS/cm):	12020
Resistivity (Mohm):	0.8319

### Analysis @ Properties in Sample Specifics

Cations	mg/L	Anions	mg/L
Calcium (Ca):	80.00	Chloride (Cl):	4000.00
Magnesium (Mg):	48.80	Sulfate (SO₄):	323.00
Barium (Ba):	34.00	Dissolved CO₂:	-
Strontium (Sr):	-	Bicarbonate (HCO₃):	658.00
Sodium (Na):	2785.00	Carbonate (CO₃):	-
Potassium (K):	-	H₂S:	2.00
Iron (Fe):	2.08	Phosphate (PO₄):	-
Manganese (Mn):	0.57	Silica (SiO₂):	-
Lithium (Li):	-	Fluoride (F):	-
Aluminum (Al):	-	Nitrate (NO₃):	-
Ammonia NH₃:	-	Lead (Pb):	-
		Zinc (Zn):	-
		Bromine (Br):	-
		Boron (B):	-

### Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

Test Conditions		Calcium Carbonate CaCO₃		Gypsum CaSO₄ · 2H₂O		Calcium Sulfate CaSO₄		Strontium Sulfate SrSO₄		Barium Sulfate BaSO₄		Calculated CO₂
Temp °F	Gauge Press. psi	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	Sat Index	Scale	psi
90	0	17.10	29.28	0.02	-1942.70	0.01	-2189.80	-	-	375.54	57.61	0.05
80	0	14.76	26.59	0.02	20.45	0.01	-2253.30	-	-	464.73	57.64	0.02
100	0	19.38	31.61	0.02	25.38	0.01	-2104.60	-	-	305.28	57.57	0.03
120	0	23.68	35.30	0.02	28.95	0.02	-1885.50	-	-	205.05	57.47	0.03
140	0	27.54	37.86	0.03	31.43	0.02	-1627.30	-	-	140.63	57.32	0.04
160	0	30.47	38.83	0.03	32.45	0.03	-1356.90	-	-	98.20	57.12	0.04
180	0	32.13	38.01	0.03	31.89	0.04	-1094.20	-	-	69.69	56.85	0.05
200	0	32.40	35.56	0.04	29.90	0.06	-852.40	-	-	50.15	56.48	0.05
220	2.51	31.15	32.24	0.04	27.14	0.08	-647.23	-	-	35.89	55.95	0.05
240	10.3	29.15	28.12	0.04	23.67	0.13	-463.09	-	-	26.37	55.26	0.05
260	20.76	26.54	24.01	0.05	20.19	0.21	-308.95	-	-	19.58	54.36	0.05
280	34.54	23.61	20.22	0.05	16.96	0.35	-182.65	-	-	14.67	53.18	0.05
300	52.34	20.61	16.94	0.05	14.12	0.58	-81.18	-	-	11.07	51.64	0.05

#### Conclusions:

Calcium Carbonate scale is indicated at all temperatures from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate scale is indicated at all temperatures from 80°F to 300°F

#### Notes:



# Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

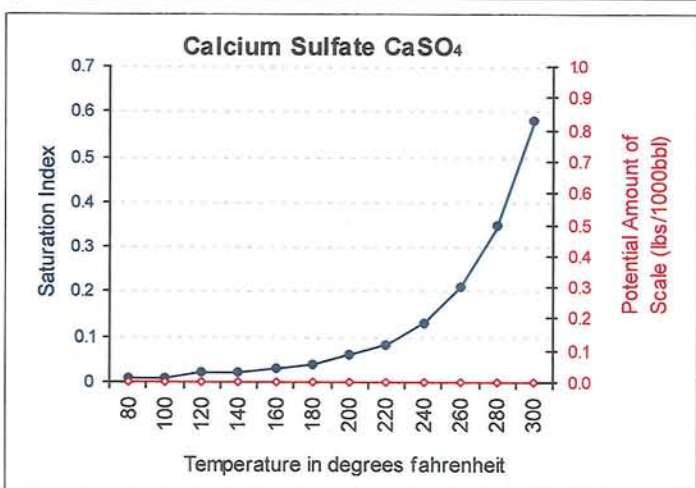
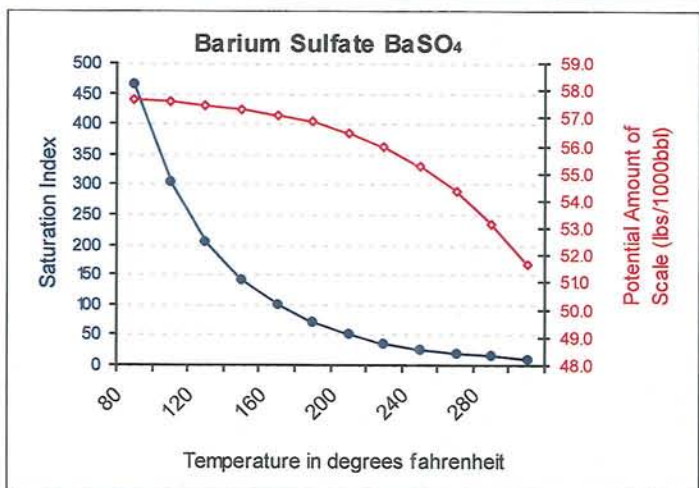
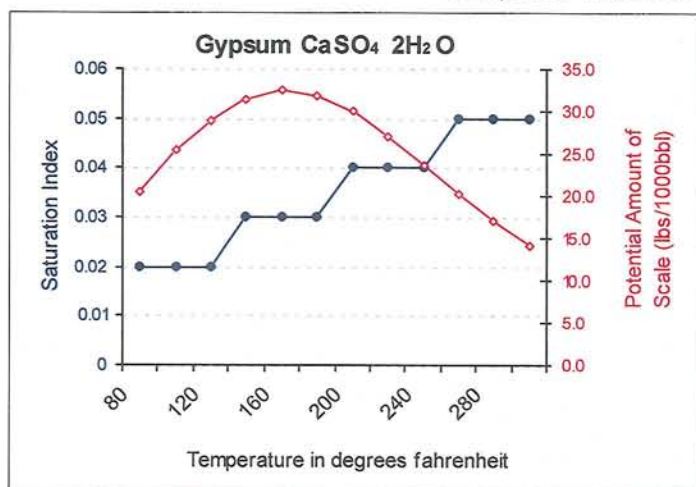
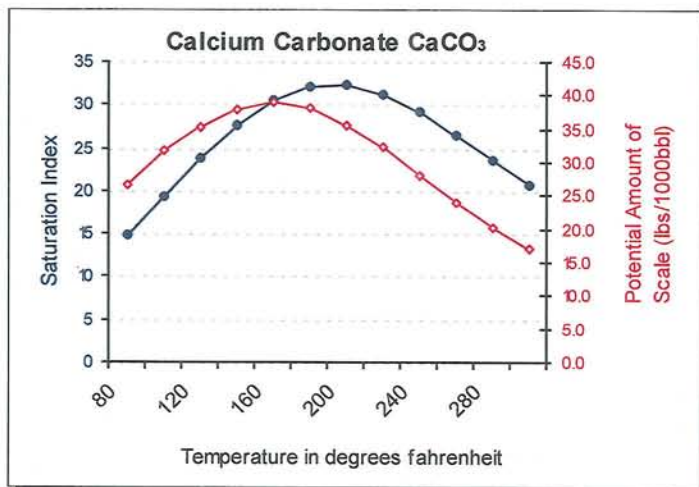
multi-chem®



## Scale Prediction Graphs

Well Name: JONAH INJ

Sample ID: WA-35263





**Attachment "G"**

**Monument Butte #5-1-9-16  
Proposed Maximum Injection Pressure**

Frac Interval (feet)		Avg. Depth (feet)	ISIP (psi)	Calculated Frac Gradient (psi/ft)	Pmax
Top	Bottom				
5257	5301	5279	2040	0.82	2006
5074	5098	5086	2036	0.83	2003 ←
4785	4897	4841	2400	0.93	2369
4298	4314	4306	2200	0.94	2172
				<b>Minimum</b>	<u><u>2003</u></u>

**Calculation of Maximum Surface Injection Pressure**

$P_{max} = (Frac\ Grad - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$   
 where pressure gradient for the fresh water is .433 psi/ft and  
 specific gravity of the injected water is 1.015.

$Frac\ Gradient = (ISIP + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.



**INLAND PRODUCTION CO.  
ILY COMPLETION REPORT**

*Attachment G-1*  
*1 of 10*

**Well Name** Monument Butte Federal 5-1 **Completion Unit** Basin WS #4 **Date** 11/9/95 **Completion Days** 1

**Work String** Size 2-7/8 Wt 6.5 Grd J-55 Pkr/EOT @ PBD 6053' KB  
**Present Operation** TIH to perf. **Work Fluid** \_\_\_\_\_

**PERFORATIONS:** Size gun \_\_\_\_\_ Shot Diameter \_\_\_\_\_ Company \_\_\_\_\_  
SPF/#SHOTS \_\_\_\_\_ SPF/#SHOTS \_\_\_\_\_ SPF/#SHOTS \_\_\_\_\_  
\_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_  
\_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_  
\_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_

**STIMULATION:** Before job; SITP \_\_\_\_\_ SICP \_\_\_\_\_ Back Press \_\_\_\_\_  
Fluid used: \_\_\_\_\_ Company \_\_\_\_\_

<b>Procedure</b>	1) _____	Max TP _____ @ _____ BPM
	2) _____	Avg TP _____ @ _____ BPM
	3) _____	ISIP _____
	4) _____	_____ after _____ min
	5) _____	_____ after _____ min
	6) _____	_____ after _____ min
	7) _____	Displacement fluid used: _____
	8) _____	_____
	9) _____	_____
	10) _____	_____

<b>FLUID RECOVERY (Bbls):</b>			<b>FLOWING:</b>				
<b>During last</b>	<b>Total</b>	<b>Left to</b>	<b>CHK</b>	<b>HRS</b>	<b>TP</b>	<b>RECOVERY</b>	<b>DAILY RATE</b>
<b>_____ hrs</b>	<b>Recovered</b>	<b>Recover</b>					
BLW _____	_____	_____	_____	_____	_____	_____	_____
BLO _____	_____	_____	_____	_____	_____	_____	_____
BNW _____	_____	_____					
BNO _____	_____	_____					

**SWABBING:** #RUNS \_\_\_\_\_ Total Recovered \_\_\_\_\_  
FL Maint. \_\_\_\_\_ Swab Rate (B/H) \_\_\_\_\_ WC \_\_\_\_\_

**REMARKS:** MIRU Basin WS. NU BOP. PU 3-3/4" bit, 5-1/2" csg scraper, tally & rabbit 197 jts 2-7/8". Tag PBD @ 6053' KB. Land tbg w/EOT @ 6036'. RU pmp & lines, press tst csg to 3000 psi, OK. Swab FL to 4800' (rec 103 BW). RD swb. TOH w/tbg, bit & scrpr. Drain pmp & lines. SDFN.

\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

<b>Completion Supervisor</b> <u>Brad Mecham</u>	<b>DAILY COST:</b> <u>\$2,305</u>
	<b>CUM COST:</b> <u>\$2,305</u>



**LAND PRODUCTION CO.  
DAILY COMPLETION REPORT**

*Attachment G-1*  
*2 of 10*

Well Name Monument Butte Federal 5-1 Completion Unit Basin #4 Date 11/10/95  
Completion Day 2

Work String Size 2-7/8 Wt 6.5 Grd J-55 Pkr/EOT @ 5374' PBD 6053' KB  
Present Operation POOH w/tbg for frac. Work Fluid 2% KCl

PERFORATIONS: Size gun 4 Shot Diameter .42 Company Halliburton  
SPF/#SHOTS                      SPF/#SHOTS                      SPF/#SHOTS  
5257' to 5263' 4/24      5296' to 5301' 4/20      to      to      to  
to      to      to      to      to      to      to  
to      to      to      to      to      to      to

STIMULATION: Before job; SITP        SICP        Back Press         
Fluid used:        Company       

Procedure	1) <u>      </u>	Max TP	<u>      </u>	@	<u>      </u>	BPM
	2) <u>      </u>	Avg TP	<u>      </u>	@	<u>      </u>	BPM
	3) <u>      </u>	ISIP	<u>      </u>			
	4) <u>      </u>		<u>      </u>	after	<u>      </u>	min
	5) <u>      </u>		<u>      </u>	after	<u>      </u>	min
	6) <u>      </u>		<u>      </u>	after	<u>      </u>	min
	7) <u>      </u>	Displacement fluid used:	<u>      </u>			
	8) <u>      </u>		<u>      </u>			
	9) <u>      </u>		<u>      </u>			
	10) <u>      </u>		<u>      </u>			

FLUID RECOVERY (Bbls):			FLOWING:				
During last	Total	Left to	CHK	HRS	TP	RECOVERY	DAILY RATE
<u>      </u> hrs	Recovered	Recover					
BLW	<u>      </u>	<u>      </u>					
BLO	<u>      </u>	<u>      </u>					
BNW	<u>      </u>	<u>      </u>					
BNO	<u>      </u>	<u>      </u>					

SWABBING: #RUNS 11 Total Recovered 12.5  
FL Maint. 5200' Swab Rate (B/H)        WC 100

REMARKS: RU wireline. RIH w/4" csg gun. Perf A Sd @ 5257-63' w/4 shots/ft. RD wireline. RIH w/NC 175 jts  
2-7/8" tbg. EOT @ 5374'. RU swb equip. IFL @ 4800', FFL @ 5200'. Made 11 runs. Rec 12.5 BW w/trace of oil final  
6 runs. FL maint 5200'. RD swb equip. Drain pmp & lines. SWIFN.

Completion Supervisor Brad Mecham DAILY COST: \$2,005  
CUM COST: \$4,310



Attachment 6-1  
3 of 10  
Date 11/11/95

3 of 10

### Completion Day 3

**PBD 6053' KB**  
**Work Fluid**                      **2% KCl**

\_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_  
 \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_  
 \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_  
 \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_ to \_\_\_\_\_

**STIMULATION:** Before job; SITP SICP Back Press  
**Fluid used:** Boragel @ 4195 **Company** Haliburton \_\_\_\_\_

Procedure:	1) Pad 5000 gal Boragel @ 4195	Max TP	2400	@	40	BPM
	2) Ramp 2-4#/gal 20/40 sd w/3000 gal gel	Avg TP	2000	@	37.5	BPM
	3) Ramp 4-6#/gal 20/40 sd w/9000 gal gel	ISIP	2040			
	4) Ramp 6-8#/gal 20/40 sd w/3000 gal gel	2020 after	5	min		
	5) Pump 8#/gal 20/40 sd w/2143 gal gel	1950 after	10	min		
	6) Flush w/5213 gal liners gel	after		min		
	7) Total fluid pmpd 27,365 gal	Displacement fluid used:				
	8) Total sd 86,814# 20/40	27,365 gal				
	9)					
	10)					

FLUID RECOVERY (Bbls):				FLOWING:				
	During last _____ hrs	Total Recovered	Left to Recover	CHK	HRS	TP	RECOVERY	DAILY RATE
BLW	652	_____	_____	_____	_____	_____	_____	_____
BLO	_____	_____	_____	_____	_____	_____	_____	_____
BNW	_____	_____	_____	_____	_____	_____	_____	_____
BNO	_____	_____	_____	_____	_____	_____	_____	_____
				<b>SWABBING: #RUNS</b> _____ <b>Total Recovered</b> _____ <b>FL Maint.</b> _____ <b>Swab Rate (B/H)</b> _____ <b>WC</b> _____				

**REMARKS:** SITP 0#. RU swb eq. IFL @ 3800'. FFL @ 4200'. Made 6 runs. Rec 35 bbls fluid, trace oil. RD swb eq. POOH w/175 jts 2-7/8 tbg. NU tree saver. RU Haliburton. Frac A sd @ 5259-63', 5296-5301' as above. Start flow back after 10 min SI @ 1 bpm on 12/64" ck. Flowed for 3-1/2 hrs, rec 185 bbls frac fluid.

DAILY COST:	\$23,225
CUM COST:	164,307



**INLAND PRODUCTION CO.  
DAILY COMPLETION REPORT**

*Attachment G-1*  
*4 of 10*

**Well Name** Monument Butte 5-1 **Completion Unit** \_\_\_\_\_ **Basin #4** \_\_\_\_\_ **Date** 11/12/95 **Completion Day** 4

**Work String** Size 2-7/8 Wt 6.5 **Grd** J-55 **Pkr/EOT @** 5120' **PBD** 5190' RBP  
**Present Operation** Frac. **Work Fluid** 2% KCl

**PERFORATIONS:** **Size gun** 4" **Shot Diameter** .42 **Company** Haliburton

		SPF/#SHOTS				SPF/#SHOTS				SPF/#SHOTS	
<u>5074</u>	to	<u>5085</u>	<u>4/44</u>	_____	to	_____	_____	to	_____	_____	_____
<u>5090</u>	to	<u>5093</u>	<u>4/12</u>	_____	to	_____	_____	to	_____	_____	_____
<u>5095</u>	to	<u>5098</u>	<u>4/12</u>	_____	to	_____	_____	to	_____	_____	_____

**STIMULATION:** **Before job;** \_\_\_\_\_ **SITP** \_\_\_\_\_ **SICP** \_\_\_\_\_ **Back Press** \_\_\_\_\_  
**Fluid used:** \_\_\_\_\_ **Company** \_\_\_\_\_

<b>Procedur</b>	1) _____	<b>Max TP</b> _____ @ _____ <b>BPM</b> <b>Avg TP</b> _____ @ _____ <b>BPM</b> <b>ISIP</b> _____ _____ after _____ min _____ after _____ min _____ after _____ min <b>Displacement fluid used:</b> _____ _____ _____
	2) _____	
	3) _____	
	4) _____	
	5) _____	
	6) _____	
	7) _____	
	8) _____	
	9) _____	
	10) _____	

<b>FLUID RECOVERY (Bbls):</b>			<b>FLOWING:</b>				
<b>During last</b>	<b>Total</b>	<b>Left to</b>	<b>CHK</b>	<b>HRS</b>	<b>TP</b>	<b>RECOVERY</b>	<b>DAILY RATE</b>
<b>_____ hrs</b>	<b>Recovered</b>	<b>Recover</b>					
<b>BLW</b> _____	_____	_____	_____	_____	_____	_____	_____
<b>BLO</b> _____	_____	_____	_____	_____	_____	_____	_____
<b>BNW</b> _____	_____	_____	_____	_____	_____	_____	_____
<b>BNO</b> _____	_____	_____	_____	_____	_____	_____	_____
			<b>SWABBING: #RUNS</b> _____ <b>Total Recovered</b> _____ <b>FL Maint.</b> _____ <b>Swab Rate (B/H)</b> _____ <b>WC</b> _____				

**REMARKS:** STP 0#. RU Haliburton WL. RIH w/RBP set @ 5190'. RU & press tst BP to 3000#. RU WL. RIH w/Bailer dump 1 sk sd on RBP @ 5190'. RD WL. RIH w/163 jts tbg, EOT @ 4998'. RU swb eq. Swb well dn to 4500' POOH w/tbg. RU WL. RIH w/4" csg gun. Perf as above. RD WL. RIH w/tbg to 5120'. RU swb eq. IFL @ 4500', FFL @ 5120'. Made 5 runs, rec 10 bbls wtr. SWIFN.

\_\_\_\_\_

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\_\_\_\_\_

**Completion Supervisor** \_\_\_\_\_ **DAILY COST:** \$4,340  
**CUM COST:** 168,647



**INLAND PRODUCTION CO.  
ILY COMPLETION REPORT**

*Attachment 6-1  
5 of 10*

Well Name Monument Butte Federal #5-1 Completion Unit Basin #4 Date 11/14/95 Completion Days 5

Work String Size 2-7/8 Wt 6.5 Grd J-55 Pkr/EOT @ Surf PBD 5190' RBP  
Present Operation Work Fluid 2% KCl

PERFORATIONS: Size gun _____ Shot Diameter _____ Company _____	
_____ to _____	_____ to _____
_____ to _____	_____ to _____
_____ to _____	_____ to _____

STIMULATION: Before job: SITP \_\_\_\_\_ SICP \_\_\_\_\_ Back Press \_\_\_\_\_  
Fluid used: Boragel 64,195' Company Haliburton

Procedure:	1) Pad 4500 gal Boragel 64,195	Max TP	2260	@	38.9	BPM
	2) Ramp 2-4#/gal 20/40 sd w/2000 gal gel	Avg TP	1800	@	55.5	BPM
	3) Ramp 4-8#/gal 20/40 sd w/10,000 gal gel	ISIP	2036			
	4) Ramp 8#/gal 20/40 sd w/3000 gal gel	1905	after	5	min	
	5) Flush w/5031 gal 10# linear gel	1853	after	10	min	
	6) Total fluid 24,797 gal		after		min	
	7) Total sd 89,500 20/40	Displacement fluid used:				
	8) _____	_____				
	9) _____	_____				
	10) _____	_____				

FLUID RECOVERY (Bbls):			FLOWING:					
	During last	Total						
	hrs	Recovered	Left to	CHK	HRS	TP	RECOVERY	DAILY RATE
			Recover					
BLW	590	165	425					
BLO								
BNW								
BNO								
				SWABBING: #RUNS _____ Total Recovered _____				
				FL Maint. _____ Swab Rate (B/H) _____ WC _____				

REMARKS: TP 0 psi, CP 0 psi. RIH w/swb. IFL @ 4100' (1020' fillup overnite). Made 6 runs, rec 24 bbls wtr. FFL @ 5100'. TOH w/tbg, RU HLS & frac "B" sd w/89,500# 20/40 sd & 24,797 gal Boragel. Avg rate 35 bpm, max press 2260 psi, 1800 psi avg. ISIP 2036 psi, 5 min 1905 psi, 10 min 1853 psi. Start flow back on 12/64" ck @ 1 bpm. Flowed for 2-1/2 hrs then died. Rec 165 bbls fluid. 881 BLWTBR. SDFN.

Completion Supervisor \_\_\_\_\_ DAILY COST: \$23,010  
CUM COST: \$191,657







Attachment 6-1  
7 of 10  
Date 11/16/95

**Date 11/16/95**

**Completion Days** 7

PERFORATIONS:		Size gun	Shot Diameter	Company	
		SPF/#SHOTS		SPF/#SHOTS	
	to		to		
	to		to		
	to		to		

<b>Procedure:</b>	<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Max TP</td> <td style="width: 10%; text-align: center;">_____</td> <td style="width: 10%; text-align: center;">@</td> <td style="width: 50%; text-align: center;">_____ BPM</td> </tr> <tr> <td>Avg TP</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">@</td> <td style="text-align: center;">_____ BPM</td> </tr> <tr> <td>ISIP</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">@</td> <td style="text-align: center;">_____ BPM</td> </tr> <tr> <td>_____</td> <td style="text-align: center;">after</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">min</td> </tr> <tr> <td>_____</td> <td style="text-align: center;">after</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">min</td> </tr> <tr> <td>_____</td> <td style="text-align: center;">after</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">min</td> </tr> <tr> <td colspan="4"><b>Displacement fluid used:</b></td> </tr> <tr> <td colspan="4">_____</td> </tr> <tr> <td colspan="4">_____</td> </tr> </table>	Max TP	_____	@	_____ BPM	Avg TP	_____	@	_____ BPM	ISIP	_____	@	_____ BPM	_____	after	_____	min	_____	after	_____	min	_____	after	_____	min	<b>Displacement fluid used:</b>				_____				_____			
Max TP	_____	@	_____ BPM																																		
Avg TP	_____	@	_____ BPM																																		
ISIP	_____	@	_____ BPM																																		
_____	after	_____	min																																		
_____	after	_____	min																																		
_____	after	_____	min																																		
<b>Displacement fluid used:</b>																																					
_____																																					
_____																																					

FLUID RECOVERY (Bbls):			FLOWING:				
During last _____ hrs	Total Recovered	Left to Recover	CHK	HRS	TP	RECOVERY	DAILY RATE
BLW _____	_____	_____	_____	_____	_____	_____	_____
BLO _____	_____	_____	_____	_____	_____	_____	_____
BNW _____	_____	_____	_____	_____	_____	_____	_____
BNO _____	_____	_____	<b>SWABBING: #RUNS _____ Total Recovered _____</b> <b>FL Maint. _____ Swab Rate (B/H) _____ WC _____</b>				

**REMARKS:** CP 100 psi, TP 50 psi. Blow dn press, well dead. Set RTTS pkr @ 4704'. RU swb, IFL 4000', pull 3 runs, rec 5 BW w/trace of oil, FFL 4700'. RU Halliburton. Break dn "D" perms w/101 bbls 2% KCl wtr & 200 ball sealers @ 7 bbls per min. Fm broke @ 2375 psi, moderate ball action, no ball out. ISIP 1600, 5 min 890, 10 min 717, 15 min 610. Surge balls off, release pkr & swb tbg dry in 12 runs, rec 33 BLW. Est 854 BLWTBR. SDFN.

### Completion Supervisor

DAILY COST:	\$2,970
CUM COST:	\$199,652



**INLAND PRODUCTION CO.  
WILLY COMPLETION REPORT**

*Attachment G-1*  
*8 of 10*

Well Name Monument Butte Federal #5-1 Completion Unit Basin #4 Date 11/17/95  
Completion Days 8

Work String Size Wt Grd Pkr/EOT @ PBD Present Operation  
RIH for BP. Work Fluid

PERFORATIONS: Size gun Shot Diameter Company SPF/#SHOTS  
SPF/#SHOTS SPF/#SHOTS SPF/#SHOTS  
to to to  
to to to  
to to to

STIMULATION: Before job: SITP SICP Back Press Fluid used:  
Company

Procedure: 1) Pad 6000 gals gel Max TP 2400 @ 45 BPM  
2) Ramp 2-4# 20/40 sd in 4000 gals gel Avg TP 1647 @ 36 BPM  
3) Ramp 4-6# 20/40 sd in 10,000 gals gel ISIP 2400  
4) Ramp 6-8# 20/40 sd in 3000 gals gel 2300 after 5 min  
5) Pumped 8# 20/40 sd in 4782 gals gel 2225 after 10 min  
6) Flush w/4721 gals after min  
7) Total fluid 32,503 gals Displacement fluid used:  
8) Total sd 110,000# 20/40  
9)  
10)

FLUID RECOVERY (Bbls):  
During last hrs Total Recovered Left to Recover  
BLW   
BLO   
BNW   
BNO

FLOWING:  
CHK HRS TP RECOVERY DAILY RATE  
      
SWABBING: #RUNS Total Recovered  
FL Maint. Swab Rate (B/H) WC

REMARKS: SIP 150 psi. Swbd FL from 3200-4100' in 6 runs. Rec 28 bbls fluid w/80% oil cut. TOH w/tbg. RU Halliburton, frac "D" zone as above. Start flow back @ 1 bpm after 10 min SI. Well flowed 3 hrs before bleeding off. Rec 180 bbls frac fluid w/sd @ times. SIFN.

Completion Supervisor

DAILY COST: \$23,280  
CUM COST: \$224,932



Attachment 6-1  
9 of 10  
Date 11/18/95

**Completion Days** 9

DAILY COST:	\$1,535
CUM COST:	<u>\$226,467</u>



**INLAND PRODUCTION CO.  
DAILY COMPLETION REPORT**

*Attachment 6-1*  
*18 of 10*

Well Name Monument Butte Federal #5-1 Completion Unit Basin #4 Date 11/19/95  
Completion Days 10

Work String Size Wt Grd POP. Pkr/EOT @ 5384' PBD 6042'  
Present Operation Work Fluid

PERFORATIONS: Size gun Shot Diameter Company   
SPF/#SHOTS SPF/#SHOTS SPF/#SHOTS  
to to to  
to to to  
to to to

STIMULATION: Before job: SITP SICP Back Press   
Fluid used: Company

Procedure: 1) Max TP @ BPM  
2) Avg TP @ BPM  
3) ISIP  
4) after min  
5) after min  
6) after min  
7) Displacement fluid used:  
8)   
9)   
10)

FLUID RECOVERY (Bbls):			FLOWING:				
During last	Total	Left to	CHK	HRS	TP	RECOVERY	DAILY RATE
hrs	Recovered	Recover					
BLW							
BLO							
BNW							
BNO							

SWABBING: #RUNS Total Recovered  
FL Maint. Swab Rate (B/H) WC

REMARKS: TP 400 psi, CP 400 psi. Blow dn, IFL 500, Swb 5 runs rec 43.5 BTF, 80% oil cut first run, 30% oil cut last run, no sd. Well flowed 10 BTF, pmp 20 BW dn tbgs & csg to kill. ND BOP. Set AC w/12,000# tension @ 5014 w/SN @ 4983', tail @ 5384'. NU wellhead. PU (1-1/2 x 16' THD) Trico pmp, 4 - 1/2" sinker bars; 4 - 3/4" scraped rods, 93 - 3/4 plain, 1-1/2 polish rod & seat pmp. Stroke & press tst tbgs. Hang horse head. RDMO. POP @ 5 PM 11/20/95.

Completion Supervisor DAILY COST: \$25,040  
CUM COST: \$253,107



## **ATTACHMENT H**

### **WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1. Set CIBP @ 4248'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 147' balance plug using 17 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Perf 4 JSPF @ 347'
6. Plug #4 Circulate 97 sx Class "G" Cement down 5-1/2" casing and up the 5 1/2" x 8 5/8" annulus

The approximate cost to plug and abandon this well is \$59,344.



# Monument Butte #5-1-9-16

Spud Date: 7/24/95  
Put on Production: 11/20/95  
GL: 5428' KB: 5441'

Initial Production: 135 BOPD, 120 MCFD  
55 BWPD

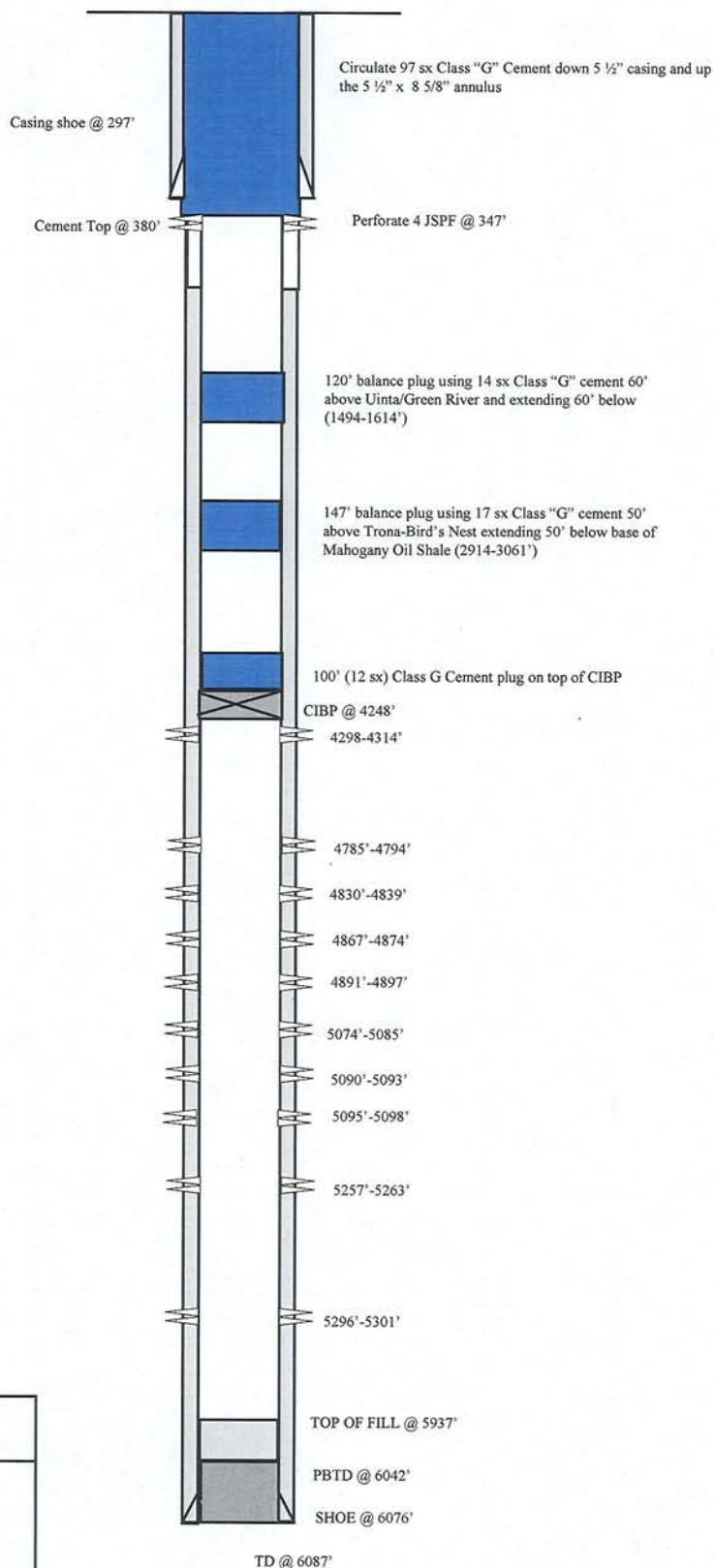
## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (299.64)  
DEPTH LANDED: 296.99'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sx Premium 250

## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 141 jts (6088')  
SET AT: 6076'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 255 sx HiFill & 325 sx Thixotropic.  
CEMENT TOP AT: 380' from CBL

## Proposed P&A Wellbore Diagram



### Monument Butte #5-1-9-16

1984 FNL & 666 FWL  
SW/NW Section 1-T9S-R16E  
Duchesne Co, Utah  
API #43-013-31507; Lease #UTU-72103



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1984 FNL 666 FWL

SWNW Section 1 T9S R16E

5. Lease Serial No.

USA UTU-72103

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

MONUMENT BUTTE FED 5-1

9. API Well No.

4301331507

10. Field and Pool, or Exploratory Area

MONUMENT BUTTE

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

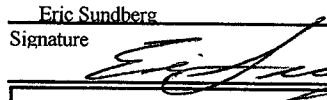
13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production proposes to convert the above mentioned well from a producing oil well to an injection well.

I hereby certify that the foregoing is true and  
correct (Printed/ Typed)

Title

Regulatory Analyst

Signature  


Date

03/02/2010

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or  
certify that the applicant holds legal or equitable title to those rights in the subject lease  
which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United  
States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)



**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Newfield Production Company      **Well:** Monument Butte Federal 5-1-9-16  
(amended submittal)

**Location:** 1/9S/16E      **API:** 43-013-31507

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM and the State of Utah. The Federal Government and the State of Utah are the mineral owners within the area of review. Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and lease holders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 297 feet and has a cement top at the surface. A 5½ inch production casing is set at 6,076 feet. A cement bond log demonstrates adequate bond in this well up to 3,810 feet. A 2 7/8 inch tubing with a packer will be set at 4,248 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. There are 5 producing wells, 2 shut-in wells, and 5 injection wells in the area of review (AOR). In addition, there is 1 currently permitted surface location outside the AOR from which a well will be directionally drilled to a bottom hole location inside the AOR and 1 surface location inside the AOR from which a well be drilled to a bottom hole location outside the AOR. All of the existing wells have evidence of adequate casing and cement. Inasmuch as some logs are of dubious quality or do not exhibit conclusive cement tops, it has been necessary to calculate approximate tops for "lite" cement, based on the cement indicated in the well completion report.

**Ground Water Protection:** As interpreted from Technical Publication No. 92, the base of moderately saline water is at a depth of approximately 400 feet. Injection shall be limited to the interval between 4,072 feet and 6,087 feet (requested between 4,785 feet and 5,301 feet per the original Statement of Basis, dated June 13, 2001) in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 5-1-9-16 well is 0.83 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 2,003 psig. The requested maximum pressure is 2,003 psig. We intend to permit this well at a maximum pressure of 2,000 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any ground water present should be adequately protected.



**Monument Butte Federal 5-1-9-16**

**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue. The Monument Butte Federal 5-1 well was one of the wells included within the new South Monument Butte Unit at the time of its establishment by the Board as an enhanced recovery project on June 8, 2001 (Cause No. 213-7). Monument Butte Federal 5-1 was approved for conversion to an injection well at that time, but it has remained as a producing oil well up to the present time.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** The original UIC application for Monument Butte Federal 5-1-9-16 was received December 12, 2000. A notice of agency action was sent to the Salt Lake Tribune and the Uinta Basin Standard on January 4, 2001 (Cause No. 213-7). Conversion approval for the original application was issued June 13, 2001. However, the well has remained as a producing well until the receipt of the amended application on March 16, 2010. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this amended application be granted.

**Note:** Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date 5/12/2010





GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 17, 2010

Newfield Production Company  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Monument Butte Federal 5-1-9-16, Section 1, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-31507

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing\tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

Gil Hunt  
Associate Director

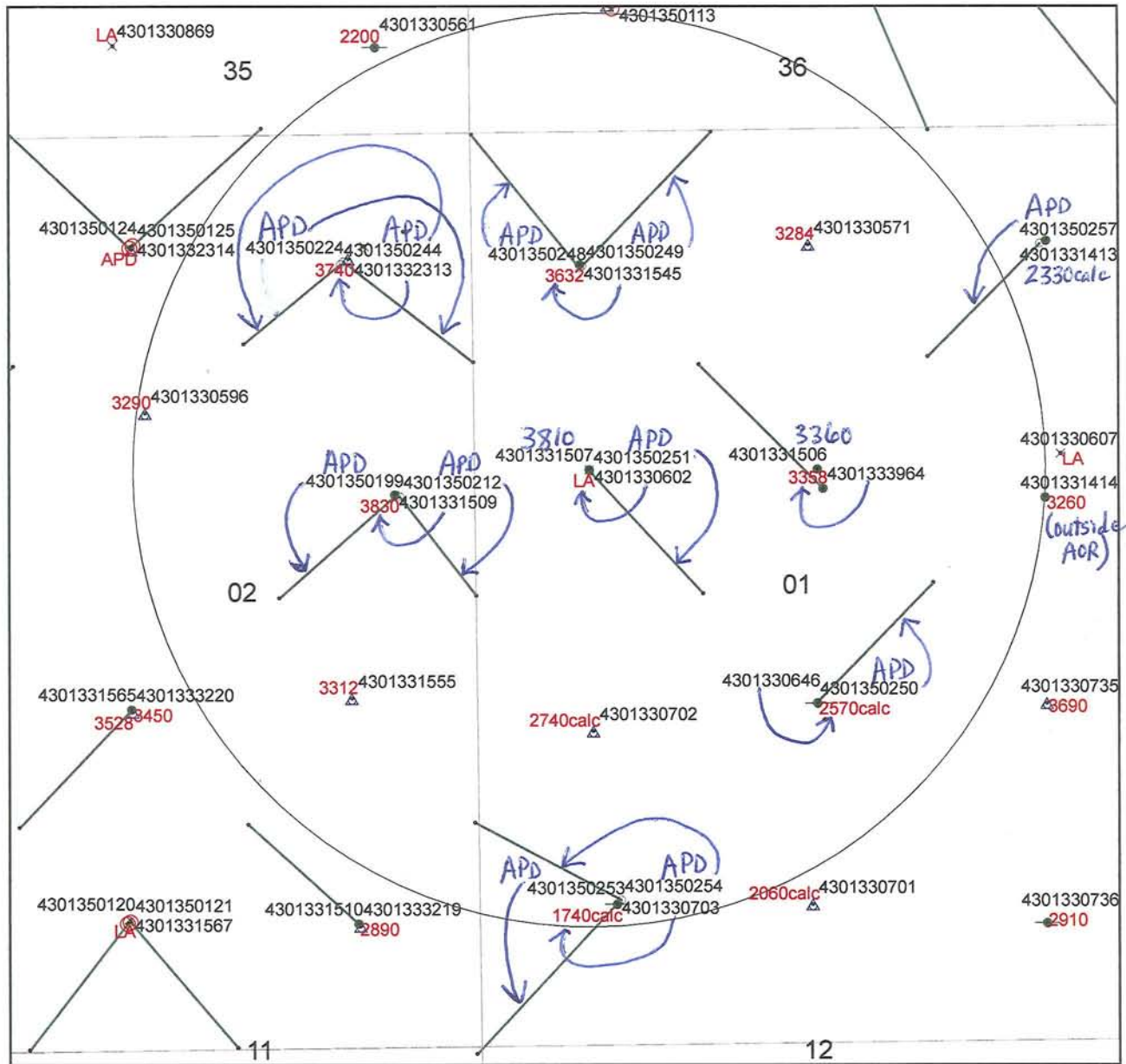
GLH/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
SITLA  
Duchesne County  
Newfield Production Company, Myton  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC







# MONUMENT BUTTE FEDERAL 5-1-9-16 API #43-013-31507 UIC-213-7.2

## Legend

- |   |                                       |
|---|---------------------------------------|
| □ Buffer_of_Wells-CbitopsMaster5_6_10_7 | ● PRODUCING OIL                       |
| • Wells-CbitopsMaster5_6_10             | ✱ SHUT-IN GAS                         |
| ✱ GAS INJECTION                         | ● SHUT-IN OIL                         |
| ● TW                                    | ✱ TEMP ABANDONED                      |
| ● TA                                    | ○ TEST WELL                           |
| ● OPS                                   | ▲ WATER INJECTION                     |
| ● GS                                    | ▲ WATER SUPPLY                        |
| ○ APD                                   | ▲ WATER DISPOSAL                      |
| ✱ PA                                    | ✱ DRILLING                            |
| ✱ LA                                    | ▲ RETURNED GAS                        |
| ✱ GAS STORAGE                           | ▲ RETURNED OIL                        |
| ✱ LOCATION ABANDONED                    | ✱ GAS INJECTION SI                    |
| ○ NEW LOCATION                          | ▲ WATER DISP. SUSP.                   |
| ✱ PLUGGED & ABANDONED                   | ▲ WATER INJ. SUSP.                    |
| ✱ PRODUCING GAS                         | — county-lines                        |
|   | □ Sections                            |
|   | — SGID83 ENERGY.DNROilGasWells_HDPath |

0 0.32 Miles

1870calc = approx cement top calculated from well completion report







September 7, 2010

Mr. Brad Hill  
State of Utah, DOGM  
1594 West North Temple-Suite 1310  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Injection Conversion  
Monument Butte 5-1-9-16  
API # 43-013-31507

Dear Mr. Brad Hill:

The subject well was converted to an injector. Please find enclosed the sundry, a copy of the tabular, and chart. If you have any questions please call me at 435-646-4874.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lucy Chavez-Naupoto".

Lucy Chavez-Naupoto  
Administrative Assistant

RECEIVED  
SEP 13 2010  
DIV. OF OIL, GAS & MINING



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
USA UTU-72103

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GMBU

1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER:  
MONUMENT BUTTE FED 5-1

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

9. API NUMBER:  
4301331507

3. ADDRESS OF OPERATOR:  
Route 3 Box 3630 CITY Myton STATE UT ZIP 84052

PHONE NUMBER  
435.646.3721

10. FIELD AND POOL, OR WILDCAT:  
GREATER MB UNIT

4. LOCATION OF WELL:  
FOOTAGES AT SURFACE: 1984 FNL 666 FWL

COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWNW, 1, T9S, R16E

STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion: 08/31/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: -
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 08/23/2010.

On 08/26/2010 Dennis Ingram with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well.

Permission was given at that time to perform the test on 08/26/2010. On 08/31/2010 the casing was pressured up to 1500 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test.

API# 43-013-31507

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE

DATE 09/07/2010

(This space for State use only)

**RECEIVED**

**SEP 13 2010**

**DIV. OF OIL, GAS & MINING**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. USA UTU-72103
2. Name of Operator NEWFIELD PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name.
3a. Address Route 3 Box 3630 Myton, UT 84052	3b. Phone (include area code) 435 646 3721	7. If Unit or CA/Agreement, Name and/or GMBU
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1984 FNL 666 FWL SWNW Section 1 T9S R16E		8. Well Name and No. MONUMENT BUTTE FED 5-1
		9. API Well No. 4301331507
		10. Field and Pool, or Exploratory Area GREATER MB UNIT
		11. County or Parish, State DUCHESNE, UT

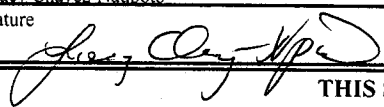
**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Change Status _____
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well has been converted from a producing oil well to an injection well on 08/23/2010. On 08/26/2010 Dennis Ingram with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 08/26/2010. On 08/31/2010 the casing was pressured up to 1500 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 200 psig during the test. There was not a State representative available to witness the test.

API# 43-013-31507

I hereby certify that the foregoing is true and correct (Printed/ Typed) Lucy Chavez-Naupoto	Title Administrative Assistant
Signature 	Date 09/07/2010
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>	

Approved by _____ Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Title _____ Office _____	Date _____
--	-----------------------------	------------

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

**SEP 13 2010**



# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company

Rt. 3 Box 3630

Myton, UT 84052

435-646-3721

Witness: \_\_\_\_\_ Date 8 / 31 / 10 Time 10:00 am pm

Test Conducted by: ████████ Newfield Exploration

Others Present: \_\_\_\_\_

Well: MONUMENT BUTTE 5-1-9-16

Field: MONUMENT BUTTE

Well Location: SW/NW, Sec. 1, T9S, R16E

API No: 43-013-31507

<u>Time</u>	<u>Casing Pressure</u>	
0 min	<u>1500</u>	psig
5	<u>1500</u>	psig
10	<u>1500</u>	psig
15	<u>1500</u>	psig
20	<u>1500</u>	psig
25	<u>1500</u>	psig
30 min	<u>1500</u>	psig
35	_____	psig
40	_____	psig
45	_____	psig
50	_____	psig
55	_____	psig
60 min	_____	psig

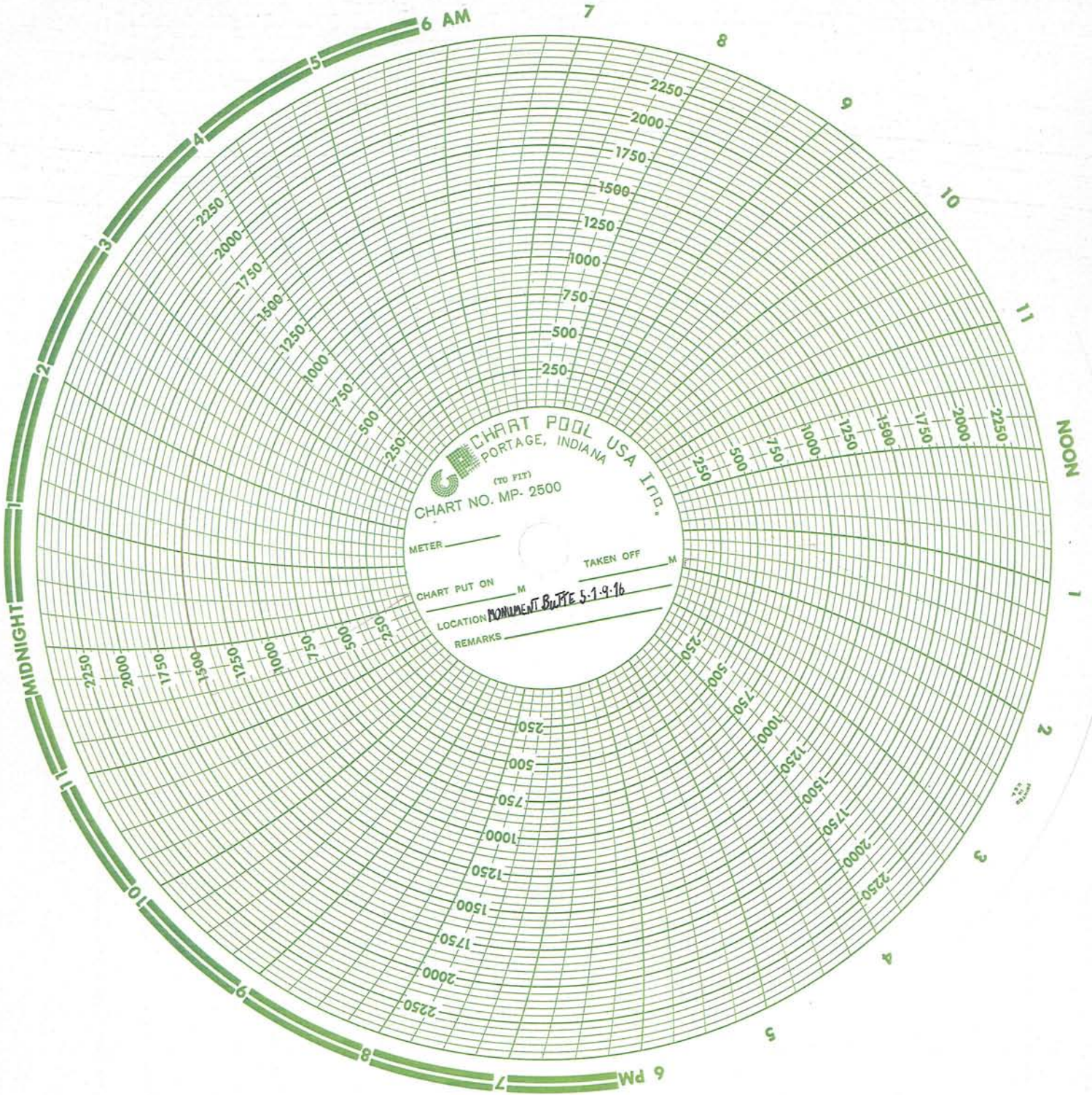
Tubing pressure: 200 psig

Result: Pass Fail

Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: test Whitehead







**Daily Activity Report****Format For Sundry****MON BT 5-1-9-16****6/1/2010 To 10/30/2010****8/18/2010 Day: 1****Conversion**

Nabors #809 on 8/18/2010 - MIRU Nabor 809. LD rod string. ND WH. NU BOP. - MIRU Nabors 809. Hot oiler pumped 60 BW down csg. Unseat rod pump. Flushed rods w/ 30 BW. Soft seat & pressure test tbg to 3000 psi. Unseat rod pump. LD rods. ND WH. NU Nabors BOP. TA was not set. SIWFN

**Daily Cost:** \$0**Cumulative Cost:** (\$50,416)

---

**8/23/2010 Day: 3****Conversion**

Nabors #809 on 8/23/2010 - Pressure test tbg. Fish SV. ND BOP. Land tbg on flange. Pump pkr fluid. Set pkr. NU WH. Pressure test csg & pkr. RDMOSU. - TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 32 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 139 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Left pressure on tbg over the weekend. - 0 psi on csg, 1500 psi on tbg. Pressure test tbg to 3000 psi. Final test held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 65 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4259', CE @ 4276' & EOT @ 4281'. Land tbg W/ 15,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. RDMOSU. READY FOR MIT!! - TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 32 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 139 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Left pressure on tbg over the weekend. - 0 psi on csg, 1500 psi on tbg. Pressure test tbg to 3000 psi. Final test held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 65 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 4259', CE @ 4276' & EOT @ 4281'. Land tbg W/ 15,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. RDMOSU. READY FOR MIT!!

**Daily Cost:** \$0**Cumulative Cost:** (\$39,820)

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**9/2/2010 Day: 4****Conversion**

Rigless on 9/2/2010 - Conversion MIT - On 8/26/2010 Dennis Ingram with the State of Utah DOGM was contacted concerning the Conversion MIT on the above listed well (Monument Butte 5-1-9-16). Permission was given at that time to perform the test on 8/26/2010. On 8/31/2010 the csg was pressured up to 1500 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 200sig during the test. There wa nt State representative available to witness the test. API # 43-013-31507

**Finalized****Daily Cost:** \$0**Cumulative Cost:** (\$14,500)



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**Pertinent Files: Go to File List**





# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-213

**Operator:** Newfield Production Company  
**Well:** Monument Butte Federal 5-1-9-16  
**Location:** Section 1, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-31507  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on May 17, 2010.
2. Maximum Allowable Injection Pressure: 2,000 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (4,072' – 6,087')
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by: John Rogers  
John Rogers  
Associate Director

10/6/2010  
Date

JR/BH/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Eric Sundberg, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

N:\O&G Reviewed Docs\ChronFile\UIC

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801  
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • [www.ogm.utah.gov](http://www.ogm.utah.gov)





**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL:      OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NUMBER: USA UTU-72103
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: GMBU
3. ADDRESS OF OPERATOR: Route 3 Box 3630      CITY Myton      STATE UT      ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1984 FNL 666 FWL		8. WELL NAME and NUMBER: MONUMENT BUTTE FED 5-1
OTR/OTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW, 1, T9S, R16E		9. API NUMBER: 4301331507
		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will 10/19/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Put on Injection
	<input checked="" type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above reference well was put on injection at 9:00 AM on 10/19/2010.

NAME (PLEASE PRINT) <u>Lucy Chavez-Naupoto</u>	TITLE <u>Administrative Assistant</u>
SIGNATURE 	DATE <u>10/19/2010</u>

(This space for State use only)

**RECEIVED**  
**OCT 25 2010**  
DIV. OF OIL, GAS & MINING



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1984 FNL 666 FWL

SWNW Section 1 T9S R16E

5. Lease Serial No.

USA UTU-72103

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

MONUMENT BUTTE FED 5-1

9. API Well No.

4301331507

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug & Abandon	<input type="checkbox"/> Temporarily Abandon	Put on Injection _____
	<input checked="" type="checkbox"/> Convert to Injector	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	_____

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The above reference well was put on injection at 9:00 AM on 10/19/2010.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Lucy Chavez-Naupoto

Signature

Title

Administrative Assistant

Date

10/19/2010

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)



# Monument Butte 5-1-9-16

Initial Production: 135 BOPD, 120 MCFD  
55 BWPD

Spud Date: 7/24/95  
Put on Production: 11/20/95  
GL: 5428' KB: 5441'

## SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (299.64)  
DEPTH LANDED: 296.99'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 120 sx Premium 250

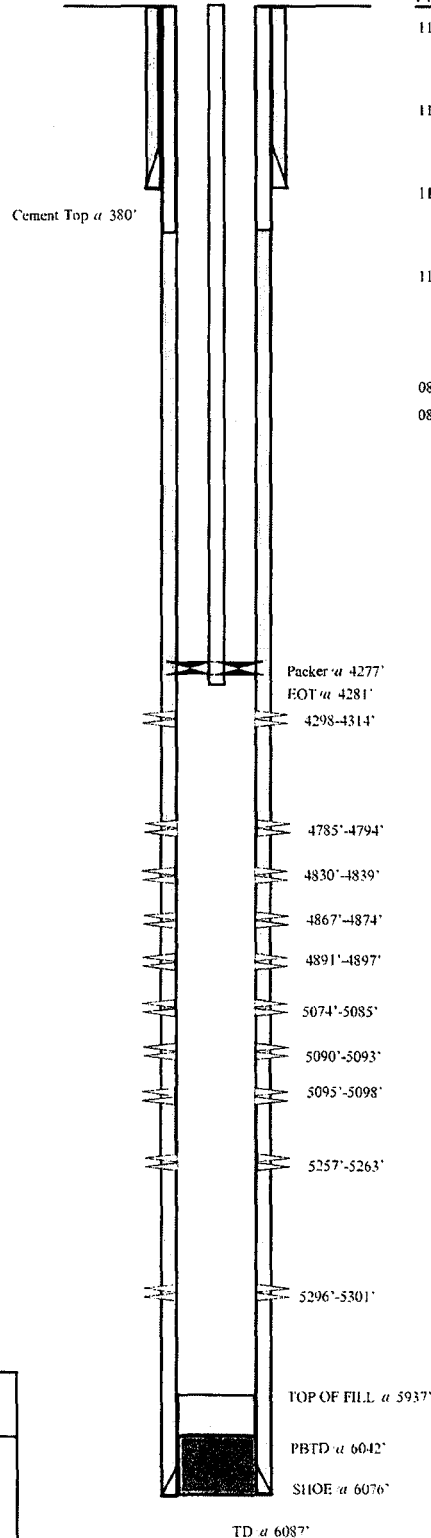
## PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 141 jts (6088')  
SET AT: 6076'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 255 sx HiFill & 325 sx Thixotropic.  
CEMENT TOP AT: 380' from CBL

## TUBING

SIZE GRADE WT: 2-7/8" J-55 6.5#  
NO. OF JOINTS: 139 jts (4259.3')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4272.3' KB  
CE at 4276.61'  
TOTAL STRING LENGTH: EOT at 4281'

## Injection Wellbore Diagram



## FRAC JOB

11/11/95	5257'-5301'	89,800# 20-40 sand in 652 bbls frac fluid. Avg TP 2000 psi w avg rate of 37.5 BPM. ISIP-2040 psi. Calc flush: 5257 gal. Act flush: 5213 gal.
11/14/95	5074'-5098'	89,500# 20-40 sand in 590 bbls frac fluid. Avg TP 1800 psi w avg rate of 35 BPM. ISIP-2036 psi. Calc flush: 5074 gal. Act flush: 5031 gal.
11/16/95	4785'-4897'	110,000# 20-40 sand in 774 bbls frac fluid. Avg TP 1647 psi w avg rate of 36 BPM. ISIP-2400 psi. Calc flush: 4785 gal. Act flush: 4721 gal.
11/03/04	4298'-4314'	<b>Frac GB6 sands as follows:</b> 78,348# 20-40 sand in 577 bbls Lightning 17 frac fluid. Treated at Avg press. of 1875 psi w avg rate of 24.9 BPM. ISIP-2200 psi. Calc flush: 4296 gal. Act flush: 4087 gal.
08-23-10		<b>Convert to Injection well</b>
08-31-10		<b>MIT Completed - tbg detail updated</b>

## PERFORATION RECORD

11/10/95	5257'-5295'	4 JSPF	24 holes
11/10/95	5296'-5301'	4 JSPF	20 holes
11/12/95	5074'-5085'	4 JSPF	44 holes
11/12/95	5090'-5093'	4 JSPF	12 holes
11/12/95	5095'-5098'	4 JSPF	12 holes
11/15/95	4785'-4794'	4 JSPF	36 holes
11/15/95	4830'-4839'	4 JSPF	36 holes
11/15/95	4867'-4874'	4 JSPF	28 holes
11/15/95	4891'-4897'	4 JSPF	24 holes
11/02/04	4298'-4314'	2 JSPF	32 holes

**NEWFIELD**

**Monument Butte 5-1-9-16**

1984 FNL & 666 FWL

SW NW Section I-T9S-R16E

Duchesne Co, Utah

API #43-013-31507; Lease #UTU-72103



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-72103
<b>1. TYPE OF WELL</b> Water Injection Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> NEWFIELD PRODUCTION COMPANY		<b>7. UNIT or CA AGREEMENT NAME:</b> GMBU (GRRV)
<b>3. ADDRESS OF OPERATOR:</b> Rt 3 Box 3630, Myton, UT, 84052		<b>8. WELL NAME and NUMBER:</b> MON BUTTE FED 5-1
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1982 FNL 0662 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 01 Township: 09.0S Range: 16.0E Meridian: S		<b>9. API NUMBER:</b> 43013315070000
<b>PHONE NUMBER:</b> 435 646-4825 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MONUMENT BUTTE
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/30/2015	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: 5 YR MIT	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  On 07/27/2015 Richard Powell with the State of Utah DOGM was contacted concerning the 5 Year MIT on the above listed well. On 07/30/2015 the casing was pressured up to 1143 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1929 psig during the test. There was a State representative available to witness the test - Richard Powell.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> August 11, 2015		
<b>NAME (PLEASE PRINT)</b> Lucy Chavez-Naupoto	<b>PHONE NUMBER</b> 435 646-4874	<b>TITLE</b> Water Services Technician
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/31/2015	



## Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company  
Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: Richard Powell Date: 7/30/2015 Time: 9:00 (A.M.) P.M.

Test Conducted by: Everett Unruh

Others Present: \_\_\_\_\_

Well: Monument Butte Federal 5-1-9-16	Field: Monument Butte
Well Location: SWNW Sec 1 T9S R16E	API No: 43-013-31507

Time	Casing Pressure
0 min	<u>1149</u> psig
5	<u>1146</u> psig
10	<u>1145</u> psig
15	<u>1143</u> psig
20	_____ psig
25	_____ psig
30 min	_____ psig
35	_____ psig
40	_____ psig
45	_____ psig
50	_____ psig
55	_____ psig
60 min	_____ psig

Tubing Pressure: 1729 psig

Result: Pass Fail

Signature of Witness: 

Signature of Person Conducting Test: 



Monument Butte Federal 5 1 9 16 (7 30 2015, 5 yr. MIT)

7/30/2015 9:06:20 AM

